



ULTRATECH
INTERNATIONAL, INC



Ultra-Utility Trays

Product Data Sheet

Part#	Outside Dimensions in (mm)			Inside Dimensions in (mm)			Capacity - Gal (L)	Weight - lbs (kg)	Max/Pallet
	Length	Width	Height	Length	Width	Height	Capacity	Weight	Max./Pallet
1031	16 ¼ (413)	52 ¼ (1327)	5 (127)	12 (305)	48 (1219)	4 ¾ (121)	12 (45)	8 (4)	24
1032	28 ¼(717)	52 ¼ (1327)	5 (127)	24 (610)	48 (1219)	4 ¾ (121)	24 (91)	13 (6)	15
1033	33 ¾ (857)	52 ¼ (1327)	5 (127)	30 (762)	48 (1219)	4 ¾ (121)	30 (113)	16 (8)	15
1034	28 ¼ (717)	40 ¼ (1022)	5 (127)	24 (610)	36 (914)	4 ¾ (121)	18 (68)	10 (5)	15
1035	40 (1016)	40 (1016)	5 (127)	36 (914)	36 (914)	4 ¾ (121)	27 (102)	10 (5)	15
1036	44 (1118)	52 (1321)	4 (102)	40 (1016)	48 (1219)	3 ½ (89)	30 (113)	18 (9)	15

Description: A black, low-profile polyethylene sump with a ribbed bottom to keep part or equipment elevated above small spills.

Application: For storage/ spill containment for leaky parts or equipment.

Product Features: The Ultra-Utility Trays keep messy drips and spill off of warehouse and factory floors.

- Heavy-duty polyethylene construction – will not rust or corrode.
- Ribbed bottom keeps cans, pails and other containers elevated above small spills or leaks.
- Place under trucks or other large vehicles to capture leaks/ spills from engines, hydraulics, or other lubricated parts.
- Nestable for easy storage when not in use.
- Available in six sizes for a variety of spill containment and maintenance applications.

Color: Black

Composition: 100% polyethylene with UV inhibitors.

Disclaimers: Flammables Notice: If using this product with flammable liquids, please consider the regulations that apply to storage and handling of flammable liquids and the safety of this application, specifically flammable vapors, static discharge and heat sources.



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Instructions

Part# 1330-1335

Ultra-Utility Tray[®] Flexible Models

The Ultra-Utility Trays come in a small and portable package. To deploy the Ultra-Utility Tray. Simply unroll and unfold. Continue to unfold the Ultra-Utility Tray until it is completely deployed.



Part#	Inside Dimensions in. (mm)	Containment Capacity gal. (L)	Weight lbs. (kg)
1335	12 x 12 x 4¾ (305 x 305 x 121)	1.5 (6)	1.0 (0.5)
1330	18 x 18 x 4¾ (457 x 457 x 121)	5 (19)	1.0 (0.5)
1331	24 x 24 x 4¾ (610 x 610 x 121)	6.5 (25)	2.0 (0.9)
1332	30 x 30 x 4¾ (762 x 762 x 121)	9 (34)	2.5 (1.0)
1333	42 x 42 x 4¾ (1,067 x 1,067 x 121)	17 (64)	3.5 (1.5)
1334	48 x 48 x 4¾ (1,219 x 1,219 x 121)	20 (76)	4.0 (2.0)





Ultra-Utility Tray[®] Flexible Models

Advantage MVP 18 is an 18 oz. coated formula known for strength and consistency. This sturdy material is well equipped to handle adverse weather conditions and

withstand great physical stress. In contrast to its tremendous strength, the soft hand and aesthetic smooth matte finish give it a quality feel and appearance.

	English	Metric	Testing Method
Weight	18.5 oz./yd ²	627 g/m ²	FS 5040 / ASTM D3776
Widths	up to 126"	up to 320 cm	-
Construction	18 x 17/1"	7 x 7/cm by 1100 x 1430	-
Grab Tensile	375 x 375 lbs./1"	1668 x 1668 N/2.5 cm	FS 5100 / ASTM D5034
Tongue Tear	100 x 100 lbs./1"	445 x 445 N/2.5 cm	FS 5134 / ASTM D2261
Adhesion	26 lbs./2"	116 N/5 cm	FS 5970 / ASTM D751
Cold Crack	-30° F	-34° C	FS 5874 / ASTM D2136
Treatments		Anti-Mildew, UV Pigments	
Fire Retardant		Self Extinguishing	
Finish		Matte	
Put-Up	75 yds.	69 m.	-





Chemical Compatibility Guide - Molded Polyethylene

For UltraTech Spill Containment Products

This listing was prepared to provide guidance to the chemical compatibility of UltraTech Spill Containment Products which are manufactured and constructed of a molded polyethylene.

Polyethylene is susceptible to attack by some chemicals which may cause stress cracking, swelling, oxidation or may permeate the polyethylene. These reactions may reduce the physical properties of polyethylene.

A = Suitable for long term storage at 100 degrees Fahrenheit or less.

B = Suitable for short term storage less than one year.

C = Do NOT store these chemicals in UltraTech containment products.

User testing may prove some of these chemicals are suitable for secondary containment applications with an exposure time of one week or less.

Acetaldehyde (40%).....A	Aqua Regia.....C	Carbon Bisulfide.....C
Acetamide.....A	Aqueous Alkalies (NaOH).....A	Carbon Disulfide.....C
Acetic Acid (50%).....A	Arsenic Acid.....A	Carbon Monoxide.....A
Acetic Acid Anhydride.....B	Barium Carbonate.....A	Carbon Tetrachloride.....C
Acetic Ether.....B	Barium Chloride.....A	Carbonic Acid (Aq. CO2).....A
Acetone.....A	Barium Cyanide.....A	Caustic (Aqueous).....A
Acetylene Tetrabromide.....B	Barium Hydroxide.....A	Caustic Potash Sol. (50%).....A
Acrylic Emulsions.....B	Barium Nitrate.....A	Caustic Soda Sol. (10%).....A
Acrylonitrile.....A	Barium Salts.....A	Chloroacetic Acid.....A
Adipic Acid.....A	Barium Sulfate.....A	Chlorobenzene.....A
Aliphatic Hydrocarbons.....A	Barium Sulfide.....A	Chloroform.....C
Alkaline.....A	Battery Fluid, Acid.....B	Chloromethane.....C
Allyl Alcohol (96%).....A	Benzaldehyde.....A	Chlorosulfonic Acid (100%).....C
Aluminum Chloride (20%).....A	Benzene Sulfonic Acid.....B	Chrome Alum Sat'd.....A
Aluminum Fluoride.....A	Benzene.....B	Chromic Acid (50%).....B
Aluminum Hydrogen Solution (10%).....A	Benzoic Acid.....A	Clycolic Acid (All Conc.).....A
Aluminum Hydroxide.....A	Benzyl Alcohol.....A	Copper Cyanide.....A
Alums (All Types).....A	Benzyl Chloroformate.....A	Cresylic Acid.....A
Ammonia (Aqueous).....A	Boric Acid Conc.....A	Crotonic Aldehyde.....A
Ammonium Acetate.....A	Boric Acid Dilute.....A	Cuprous Chloride Sat'd.....A
Ammonium Bifluoride.....A	Borzx Cold Sat'd.....A	Cyclohexanone.....B
Ammonium Carbonate (50%).....A	Bromine, Liquid.....C	Cyclohexane.....A
Ammonium Chloride.....A	Bromine, Water.....C	Cyclohexanol.....A
Ammonium Hydrogen Fluoride (50%).....A	Bromobenzene.....C	Dextrin Sat'd.....A
Ammonium Hydroxide.....A	Bromoform.....C	Dextrose Sat'd.....A
Ammonium Metaphosphate Sat'd.....A	Butadiene.....A	Di Isobutyl Ketone.....B
Ammonium Nitrate Sat'd.....A	Butanediol (100%).....A	Dibutyl Ether.....C
Ammonium Persulfate Sat'd.....A	Butanol.....A	Dibutyl Sebacate.....B
Ammonium Phosphate.....A	Butyl Acetate.....A	Dibutylphthalate.....B
Ammonium Salts.....A	Butyl Alcohol (100%).....A	Dichloroacetic Acid.....B
Ammonium Sulfate Sat'd.....A	Butyl Phenol.....C	Dichlorobenzene, Liquid.....C
Ammonium Sulfide, Sat'd.....A	Butylene Glycol.....A	Dichloroethylene.....C
Ammonium Thiocyanate Sat'd.....A	Butylene Liquid.....C	Diesel Fuel.....B
Amyl Acetate.....A	Butylene.....C	Diesel Oil.....B
Amyl Alcohol (100%).....A	Butyric Acid.....A	Diethanolamine.....B
Amyl Chloride.....C	Calcium Carbonate.....A	Diethyl Carbonate.....A
Aniline (100%).....B	Calcium Chloride.....A	Diethylene Glycol.....A
Aniline Hydrochloride.....B	Calcium Hydroxide.....A	Diglycolic Acid (30%).....A
Anti Freeze.....A	Calcium Hypochlorite.....A	Dimethyl Formamide.....B
Antimony Salts.....A	Calcium Nitrate (50%).....A	Dimethylamine.....B
Antimony Trichloride (90%).....A	Calcium Sulfate.....A	Dinonyl Phthalate.....C

When considering an UltraTech polyethylene product for use in secondary containment applications, it is important to note that most secondary containment products are designed to hold leaked chemicals for only hours, a day, at most a week.

These secondary containment units would then be cleaned of any chemical. In these short term applications, a greater variety of chemicals may be used with the polyethylene since the exposure time of the chemical to the polyethylene is limited.



Diocetyl Phthalate	C	Magnesium Hydroxide	A	Potassium Hydroxide	A
Dioxane	A	Magnesium Nitrate	A	Potassium Nitrate Sat'd	A
Diphenyl Oxide	C	Magnesium Oxide	A	Potassium Perborate Sat'd	A
Disodium Phosphate	A	Magnesium Salts	A	Potassium Perchlorate	A
Electrolyte	A	Magnesium Sulfate	A	Potassium Phosphates	A
Ethanol	A	Maleic Acid	A	Potassium Sulfate	A
Ether	C	Methanol	A	Propanol	A
Ethyl Acetate (100%)	B	Methyl Acetate	A	Propargyl Alcohol (7%)	A
Ethyl Alcohol	A	Methyl Alcohol (100%)	A	Propionic Acid (50%)	A
Ethyl Butyrate	B	Methyl Amine (32%)	A	Propyl Alcohol	A
Ethyl Chloride	C	Methyl Bromide	C	Propylene Dichloride (100%)	A
Ethyl Ether	C	Methyl Chloride	C	Propylene Glycol	A
Ethylene Chloride	C	Methyl Ethyl Ketone	B	Propylene Oxide	A
Ethylene Chlorohydrin	A	Methyl Isobutyl Ketone	B	Pyridine	B
Ethylene Diamine	A	Methyl Isopropyl Ketone	B	Selenic Acid	A
Ethylene Dichloride	C	Methyl Sulfate	A	Sewage	A
Ethylene Glycol	A	Methyl Sulfuric Acid (All Conc.)	A	Silicic Acid	A
Ethylene Oxide	C	Methylene Chloride	C	Silver Nitrate	A
Fatty Acids	A	Mineral Oils	A	Soda Ash	A
Ferric Sulfate	A	Monochloroacetic Acid Ethyl Ester	A	Sodium Acetate Sat'd	A
Ferrous Salts	A	Monochloroacetic Acid Methyl Ester	A	Sodium Benzoate	A
Ferrous Sulfate	A	Mowilith D	A	Sodium Bisulfate (10%)	A
Fluoboric Acid	A	Naptha	B	Sodium Bisulfite	A
Fluosilicic Acid (All Conc.)	A	Napthalene	B	Sodium Bromate	B
Formaldehyde (40%)	A	Nicotine Dilute	A	Sodium Chloride	A
Formamide	A	Nicotinic Acid	A	Sodium Chlorite	A
Formic Acid (All Conc.)	A	Nitric Acid (50%)	A	Sodium Chromate	A
Fuel Oil	A	Nitrobenzene	B	Sodium Disulfite	A
Furfural (100%)	A	Nitrotoluene	B	Sodium Dithionite (10%)	A
Furfuryl Alcohol	C	Octyl Cresol	A	Sodium Fluoride Sat'd	A
Gallic Acid Sat'd	A	Oleic Acid (All Conc.)	A	Sodium Hydroxide Conc	A
Gasoline	A	Oleum Conc	C	Sodium Hypochlorite	A
Gluconic Acid (All Conc.)	A	Oxalic Acid (All Conc.)	A	Sodium Nitrate	A
Glycerine	A	Palmitic Acid	C	Sodium Oxalate	A
Glycol	A	Paraffin Emulsions	A	Sodium Persulfate	A
Heptane	A	Perchloric Acid (50%)	A	Sodium Phosphate	A
Hexane	A	Perchloroethylene	B	Sodium Sulfonates	A
Hydrazone Hydrate	A	Petroleum Ether	B	Stearic Acid (All Conc.)	A
Hydrobromic Acid (50%)	A	Petroleum	A	Succinic Acid	A
Hydrochloric Acid (All Conc.)	A	Phenylhydrazine	C	Sulfuric Acid (98%)	B
Hydrocyanic Acid Sat'd	A	Phosphoric Acid (All Conc.)	A	Sulfuric Acid, Fuming	C
Hydrofluoric Acid (All Conc.)	A	Phosphorous (Yellow 100%)	A	Sulfurous Acid	A
Hydrofluorisilicic Acid (All Conc.)	A	Phosphorous Chlorides	B	Sulfuryl Chloride	C
Hydrogen Bromide (10%)	A	Phosphorous Pentoxide	A	Tartaric Acid Sat'd	A
Hydrogen Peroxide (90%)	A	Photographic Solutions	A	Tetrachlorethylene	C
Hydrogen Phosphide (100%)	A	Phthalic Acid (All Conc.)	A	Tetrachloroethane	C
Hydrogen Sulfide	A	Phthalic Anhydride	A	Tetrahydrofuran	C
Hydroiodic Acid (All Conc.)	A	Pickling Baths		Tetrahydronaphthalene	C
Hydroquinone	A	• Sulfuric Acid	A	Thionyl Chloride	C
Hydro sulfite (10%)	A	• Hydrochloric Acid	A	Titanium Salts	B
Hydroxylamine Sulfate	A	Picric Acid (1%)	A	Toluene Sulfonic Acid (All Conc.)	B
Hydrozine (35%)	A	Plating Solutions	A	Toluene	B
Hydrozine Hydrochloride	A	Potassium Aluminum Sulfates (50%)	A	Transformer Oil	A
Hypochlorous Acid	A	Potassium Bichromate	A	Tributylphosphate	A
Iso Octane	B	Potassium Borate (10%)	A	Trichloroacetic Acid	B
Isopropyl Acetate	A	Potassium Bromide	A	Trichloroethane	C
Isopropyl Alcohol	A	Potassium Chlorate	A	Trichloroethylene	C
Isopropyl Ether	C	Potassium Chloride	A	Tricresyl Phosphate	A
Jet Fuel	B	Potassium Chromate	A	Triethanolamine	A
Kerosene	B	Potassium Cyanide	A	Trioctyl Phosphate	C
Lactic Acid (All Conc.)	A	Potassium Dichromate (40%)	A	Trisodium Phosphate Sat'd	A
Lead Acetate Sat'd	A	Potassium Ferri Ferro Cyanide Sat'd	A	Turpentine Oil	C
Magnesium Carbonate	A	Potassium Fluoride	A	Xylene	C



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MAINTENANCE AND CARE

UltraTech Polyethylene Spill Containment Products

1. There is no specific need to clean an UltraTech Spill Containment product that has not had a spill or leak as the polyethylene plastic material it is constructed from is designed to last for years in most indoor or outdoor environment. The polyethylene has a UV protective additive for prolonged outdoor exposure.
2. The products are rated for use in temperatures from -40° F to 160° F.
3. The sump area of the product should be inspected weekly for any spills or leaks. If a spill or leak is discovered, it should be cleaned up **within 24 hours**. If inspection shows the sump area has a crack or hole or other damage that could affect the functionality of the unit, it should be **immediately removed from service**.
4. To clean up a spill or a leak, use all safety precautions required for handling the particular chemical involved. Using a safe pumping method for the chemical involved, pump the spilled contents out of the containment sump and into a drum or container for proper disposal or reuse. If the chemical involved is not safe to pump, use absorbents or other means to remove the chemical from the containment sump safely. Dispose of any chemicals, used sorbents or other disposables in compliance with your local or federal regulations.
5. Once the chemical has been removed, use a sorbent mat or pad to wipe down the inside of the containment unit to remove any remaining chemical residue. Finish by washing with soap and water and allow the unit to dry before placing back into service.
6. The unit's grating should be cleaned of any residual chemical and cleaned with soap and water.
7. If the unit had a drain plug that was removed to drain off any chemical or soap/water, be sure to replace the drain plug securely.
8. Ultra-Spill Deck Bladder System special instructions:
 - a. Use a hand pump with a ½" diameter tube and insert the tube into the opening of the bladder from inside the Spill Deck after removing the grate.
 - b. Pump the contents of the bladder and the Spill Deck into a drum or container for proper disposal or reuse.
 - c. If there is some remaining residue inside the bladder, lift the outside end of the bladder and allow the residue to pour back into the Spill Deck sump where it can be pumped out or absorbed with sorbents.
 - d. Remove the bladder from the Spill Deck by uncrewing the bulkhead fitting and dispose of the bladder properly according to local and federal regulations. **DO NOT RE-USE A BLADDER.** After the Spill Deck has been cleaned up, place a new bladder into the Bladder Attachment and attach it to the Spill Deck following the instructions that accompany the replacement bladder.



Wrong Way Wednesday | Jan. 6, 2016



Solution:



Okay, so maybe if your customer is using water jugs to capture waste oil, good housekeeping and spill containment isn't at the top of their priority list. But who knows? Can't judge a book by its cover. Regardless, the scenario pictured in this week's Wrong Way Wednesday is not uncommon.

Not everything is stored in 55-gallon drums and for those smaller containers we have a number of solutions. One of the most popular is the Ultra-Utility Trays.

These heavy-duty polyethylene trays are available in 6 different sizes for almost any application. They can be used for oil cans, gas cans, other smaller liquid containers or for leaky parts, tools or machinery. They can also

be used as catch pans under trucks and other vehicles.

Whatever the application, the Ultra-Utility Trays are a quick, easy and economical solution. And they're covered under our industry-leading five year warranty! Check 'em out!

And now you know. Happy Wednesday!



PVC

Chemical Compatibility Guide

Ultra -Spill Pallets Flexible Model • Ultra -Spill Decks Flexible Model
 Ultra -Utility Trays Flexible Model • Ultra -Track Beam

NOTICE: This report is offered as a guide and was developed from information which, to the best of UltraTech International, Inc.'s knowledge, was reliable and accurate. Due to variables and conditions of application beyond UltraTech International, Inc.'s control, none of the data shown in this guide is to be construed as a guarantee, expressed, or implied. UltraTech assumes no responsibility, obligation, or liability in conjunction with the use or misuse of the information.

Ratings -- Chemical Effect

A = Excellent.
 B = Good -- Minor Effect, slight corrosion or discoloration.
 C = Fair -- Moderate Effect, not recommended for continuous use. Softening, loss of strength, swelling may occur.
 D = Severe Effect, not recommended for ANY use.
 N/A = Information not available.

Explanation of Footnotes

1. Satisfactory to 72°F (22°C)
2. Satisfactory to 120°F (48°C)

Acetaldehyde	D-Severe Effect
Acetamide	D-Severe Effect
Acetate Solvent	D-Severe Effect
Acetic Acid	D-Severe Effect
Acetic Acid 20%	D-Severe Effect
Acetic Acid 80%	C-Fair
Acetic Acid, Glacial	D-Severe Effect
Acetic Anhydride	D-Severe Effect
Acetone	D-Severe Effect
Acetyl Bromide	D-Severe Effect
Acetyl Chloride (dry)	C-Fair
Acetylene	A1-Excellent
Acrylonitrile	B1-Good
Adipic Acid	A2-Excellent
Alcohols:Amyl	A2-Excellent
Alcohols:Benzyl	D-Severe Effect

Alcohols:Butyl	A2-Excellent
Alcohols:Diacetone	B1-Good
Alcohols:Ethyl	C-Fair
Alcohols:Hexyl	A2-Excellent
Alcohols:Isobutyl	A1-Excellent
Alcohols:Isopropyl	A1-Excellent
Alcohols:Methyl	A1-Excellent
Alcohols:Octyl	N/A
Alcohols:Propyl	A1-Excellent
Aluminum Chloride	A2-Excellent
Aluminum Chloride 20%	A1-Excellent
Aluminum Fluoride	A2-Excellent
Aluminum Hydroxide	A2-Excellent
Aluminum Nitrate	B2-Good
Aluminum Potassium Sulfate 10%	A2-Excellent
Aluminum Potassium Sulfate 100%	A2-Excellent
Aluminum Sulfate	A2-Excellent
Alums	N/A
Amines	D-Severe Effect
Ammonia 10%	B1-Good
Ammonia Nitrate	B-Good
Ammonia, anhydrous	A2-Excellent
Ammonia, liquid	A1-Excellent
Ammonium Acetate	A-Excellent
Ammonium Bifluoride	A2-Excellent
Ammonium Carbonate	A2-Excellent
Ammonium Caseinate	N/A
Ammonium Chloride	A2-Excellent
Ammonium Hydroxide	A-Excellent
Ammonium Nitrate	A2-Excellent
Ammonium Oxalate	A-Excellent
Ammonium Persulfate	A2-Excellent
Ammonium Phosphate, Dibasic	A2-Excellent
Ammonium Phosphate, Monobasic	A-Excellent
Ammonium Phosphate, Tribasic	A-Excellent
Ammonium Sulfate	A2-Excellent
Ammonium Sulfite	A2-Excellent
Ammonium Thiosulfate	N/A
Amyl Acetate	D-Severe Effect
Amyl Alcohol	A2-Excellent
Amyl Chloride	D-Severe Effect
Aniline	C1-Fair

Aniline Hydrochloride	B2-Good
Antifreeze	A-Excellent
Antimony Trichloride	A2-Excellent
Aqua Regia (80% HCl, 20% HNO ₃)	C1-Fair
Arochlor 1248	N/A
Aromatic Hydrocarbons	D-Severe Effect
Arsenic Acid	A1-Excellent
Arsenic Salts	A-Excellent
Asphalt	A2-Excellent
Barium Carbonate	A2-Excellent
Barium Chloride	A1-Excellent
Barium Cyanide	D-Severe Effect
Barium Hydroxide	A2-Excellent
Barium Nitrate	A-Excellent
Barium Sulfate	B1-Good
Barium Sulfide	A2-Excellent
Beer	A2-Excellent
Beet Sugar Liquids	A2-Excellent
Benzaldehyde	D-Severe Effect
Benzene	C1-Fair
Benzene Sulfonic Acid	A-Excellent
Benzoic Acid	A-Excellent
Benzol	N/A
Benzonitrile	N/A
Benzyl Chloride	N/A
Bleaching Liquors	A1-Excellent
Borax (Sodium Borate)	A1-Excellent
Boric Acid	A2-Excellent
Brewery Slop	N/A
Bromine	C1-Fair
Butadiene	C1-Fair
Butane	C1-Fair
Butanol (Butyl Alcohol)	C1-Fair
Butter	N/A
Buttermilk	A1-Excellent
Butyl Amine	D-Severe Effect
Butyl Ether	A2-Excellent
Butyl Phthalate	N/A
Butylacetate	D-Severe Effect
Butylene	A1-Excellent
Butyric Acid	B1-Good
Calcium Bisulfate	N/A

Calcium Bisulfide	A2-Excellent
Calcium Bisulfite	B-Good
Calcium Carbonate	A2-Excellent
Calcium Chlorate	B2-Good
Calcium Chloride	C-Fair
Calcium Hydroxide	B-Good
Calcium Hypochlorite	B1-Good
Calcium Nitrate	A2-Excellent
Calcium Oxide	B-Good
Calcium Sulfate	B2-Good
Calgon	N/A
Cane Juice	A1-Excellent
Carbolic Acid (Phenol)	D-Severe Effect
Carbon Bisulfide	D-Severe Effect
Carbon Dioxide (dry)	A2-Excellent
Carbon Dioxide (wet)	A1-Excellent
Carbon Disulfide	D-Severe Effect
Carbon Monoxide	A2-Excellent
Carbon Tetrachloride	D-Severe Effect
Carbon Tetrachloride (dry)	N/A
Carbon Tetrachloride (wet)	N/A
Carbonated Water	A-Excellent
Carbonic Acid	A2-Excellent
Catsup	A-Excellent
Chloric Acid	A2-Excellent
Chlorinated Glue	N/A
Chlorine (dry)	D-Severe Effect
Chlorine Water	A2-Excellent
Chlorine, Anhydrous Liquid	D-Severe Effect
Chloroacetic Acid	B1-Good
Chlorobenzene (Mono)	D-Severe Effect
Chlorobromomethane	D-Severe Effect
Chloroform	D-Severe Effect
Chlorosulfonic Acid	D-Severe Effect
Chocolate Syrup	N/A
Chromic Acid 10%	A2-Excellent
Chromic Acid 30%	A1-Excellent
Chromic Acid 5%	A2-Excellent
Chromic Acid 50%	D-Severe Effect
Chromium Salts	A-Excellent
Cider	A-Excellent
Citric Acid	B2-Good

Citric Oils	N/A
Cloroxr (Bleach)	A-Excellent
Coffee	N/A
Copper Chloride	A1-Excellent
Copper Cyanide	A2-Excellent
Copper Fluoborate	A-Excellent
Copper Nitrate	A2-Excellent
Copper Sulfate >5%	A2-Excellent
Copper Sulfate 5%	A2-Excellent
Cream	N/A
Cresols	D-Severe Effect
Cresylic Acid	D-Severe Effect
Cupric Acid	A2-Excellent
Cyanic Acid	N/A
Cyclohexane	D-Severe Effect
Cyclohexanone	D-Severe Effect
Detergents	A-Excellent
Diacetone Alcohol	D-Severe Effect
Dichlorobenzene	D-Severe Effect
Dichloroethane	D-Severe Effect
Diesel Fuel	A1-Excellent
Diethyl Ether	D-Severe Effect
Diethylamine	D-Severe Effect
Diethylene Glycol	C1-Fair
Dimethyl Aniline	D-Severe Effect
Dimethyl Formamide	D-Severe Effect
Diphenyl	N/A
Diphenyl Oxide	D-Severe Effect
Dyes	B-Good
Epsom Salts (Magnesium Sulfate)	A1-Excellent
Ethane	A1-Excellent
Ethanol	C-Fair
Ethanolamine	D-Severe Effect
Ether	D-Severe Effect
Ethyl Acetate	D-Severe Effect
Ethyl Benzoate	D-Severe Effect
Ethyl Chloride	D-Severe Effect
Ethyl Ether	D-Severe Effect
Ethyl Sulfate	N/A
Ethylene Bromide	D-Severe Effect
Ethylene Chloride	D-Severe Effect
Ethylene Chlorohydrin	D-Severe Effect

Ethylene Diamine	D-Severe Effect
Ethylene Dichloride	D-Severe Effect
Ethylene Glycol	A-Excellent
Ethylene Oxide	D-Severe Effect
Fatty Acids	A-Excellent
Ferric Chloride	A-Excellent
Ferric Nitrate	A-Excellent
Ferric Sulfate	A-Excellent
Ferrous Chloride	A-Excellent
Ferrous Sulfate	A-Excellent
Fluoboric Acid	A-Excellent
Fluorine	D-Severe Effect
Fluosilicic Acid	D-Severe Effect
Formaldehyde 100%	A-Excellent
Formaldehyde 40%	A-Excellent
Formic Acid	A1-Excellent
Freon 113	B-Good
Freon 12	A2-Excellent
Freon 22	A-Excellent
Freon TF	B-Good
Freonr 11	A2-Excellent
Fruit Juice	A-Excellent
Fuel Oils	A2-Excellent
Furan Resin	A-Excellent
Furfural	D-Severe Effect
Gallic Acid	B-Good
Gasoline (high-aromatic)	A-Excellent
Gasoline, leaded, ref.	B-Good
Gasoline, unleaded	C2-Fair
Gelatin	B-Good
Glucose	A2-Excellent
Glue, P.V.A.	C-Fair
Glycerin	A-Excellent
Glycolic Acid	B-Good
Gold Monocyanide	N/A
Grape Juice	A-Excellent
Grease	A-Excellent
Heptane	C1-Fair
Hexane	B1-Good
Honey	A-Excellent
Hydraulic Oil (Petro)	A-Excellent
Hydraulic Oil (Synthetic)	A-Excellent

Hydrazine	N/A
Hydrobromic Acid 100%	A1-Excellent
Hydrobromic Acid 20%	B2-Good
Hydrochloric Acid 100%	D-Severe Effect
Hydrochloric Acid 20%	A2-Excellent
Hydrochloric Acid 37%	B-Good
Hydrochloric Acid, Dry Gas	A2-Excellent
Hydrocyanic Acid	B-Good
Hydrocyanic Acid (Gas 10%)	A-Excellent
Hydrofluoric Acid 100%	C-Fair
Hydrofluoric Acid 20%	B-Good
Hydrofluoric Acid 50%	B1-Good
Hydrofluoric Acid 75%	C-Fair
Hydrofluosilicic Acid 100%	B1-Good
Hydrofluosilicic Acid 20%	A2-Excellent
Hydrogen Gas	A2-Excellent
Hydrogen Peroxide 10%	A1-Excellent
Hydrogen Peroxide 100%	A-Excellent
Hydrogen Peroxide 30%	A1-Excellent
Hydrogen Peroxide 50%	A1-Excellent
Hydrogen Sulfide (aqua)	B1-Good
Hydrogen Sulfide (dry)	A2-Excellent
Hydroquinone	B-Good
Hydroxyacetic Acid 70%	D-Severe Effect
Ink	C-Fair
Iodine	A-Excellent
Iodine (in alcohol)	A-Excellent
Iodoform	A-Excellent
Isooctane	A1-Excellent
Isopropyl Acetate	D-Severe Effect
Isopropyl Ether	B-Good
Isotane	A-Excellent
Jet Fuel (JP3, JP4, JP5)	C-Fair
Kerosene	A2-Excellent
Ketones	D-Severe Effect
Lacquer Thinners	D-Severe Effect
Lacquers	D-Severe Effect
Lactic Acid	B1-Good
Lard	A1-Excellent
Latex	N/A
Lead Acetate	B-Good
Lead Nitrate	A2-Excellent

Lead Sulfamate	B-Good
Ligroin	N/A
Lime	B-Good
Linoleic Acid	A2-Excellent
Lithium Chloride	D-Severe Effect
Lithium Hydroxide	N/A
Lubricants	B2-Good
Lye: Ca(OH) ₂ Calcium Hydroxide	B2-Good
Lye: KOH Potassium Hydroxide	B-Good
Lye: NaOH Sodium Hydroxide	A-Excellent
Magnesium Bisulfate	A2-Excellent
Magnesium Carbonate	B-Good
Magnesium Chloride	B-Good
Magnesium Hydroxide	A2-Excellent
Magnesium Nitrate	A2-Excellent
Magnesium Oxide	N/A
Magnesium Sulfate (Epsom Salts)	A1-Excellent
Maleic Acid	A2-Excellent
Maleic Anhydride	N/A
Malic Acid	A2-Excellent
Manganese Sulfate	C-Fair
Mash	N/A
Mayonnaise	D-Severe Effect
Melamine	D-Severe Effect
Mercuric Chloride (dilute)	A-Excellent
Mercuric Cyanide	A-Excellent
Mercurous Nitrate	A-Excellent
Mercury	A-Excellent
Methane	B-Good
Methanol (Methyl Alcohol)	A1-Excellent
Methyl Acetate	D-Severe Effect
Methyl Acetone	D-Severe Effect
Methyl Acrylate	N/A
Methyl Alcohol 10%	A1-Excellent
Methyl Bromide	D-Severe Effect
Methyl Butyl Ketone	A-Excellent
Methyl Cellosolve	D-Severe Effect
Methyl Chloride	D-Severe Effect
Methyl Dichloride	A-Excellent
Methyl Ethyl Ketone	D-Severe Effect
Methyl Ethyl Ketone Peroxide	N/A
Methyl Isobutyl Ketone	D-Severe Effect

Methyl Isopropyl Ketone	D-Severe Effect
Methyl Methacrylate	A-Excellent
Methylamine	D-Severe Effect
Methylene Chloride	D-Severe Effect
Milk	A2-Excellent
Mineral Spirits	A-Excellent
Molasses	A-Excellent
Monochloroacetic acid	N/A
Monoethanolamine	D-Severe Effect
Morpholine	N/A
Motor oil	B-Good
Mustard	B-Good
Naphtha	A1-Excellent
Naphthalene	D-Severe Effect
Natural Gas	A-Excellent
Nickel Chloride	A-Excellent
Nickel Nitrate	A-Excellent
Nickel Sulfate	A-Excellent
Nitrating Acid (<15% HNO3)	D-Severe Effect
Nitrating Acid (>15% H2SO4)	D-Severe Effect
Nitrating Acid (S1% Acid)	D-Severe Effect
Nitrating Acid (S15% H2SO4)	D-Severe Effect
Nitric Acid (20%)	A1-Excellent
Nitric Acid (50%)	B1-Good
Nitric Acid (5-10%)	A1-Excellent
Nitric Acid (Concentrated)	B1-Good
Nitrobenzene	D-Severe Effect
Nitrogen Fertilizer	N/A
Nitromethane	B2-Good
Nitrous Acid	A-Excellent
Nitrous Oxide	A-Excellent
Oils:Aniline	D-Severe Effect
Oils:Anise	N/A
Oils:Bay	N/A
Oils:Bone	N/A
Oils:Castor	A-Excellent
Oils:Cinnamon	D-Severe Effect
Oils:Citric	B-Good
Oils:Clove	N/A
Oils:Coconut	A1-Excellent
Oils:Cod Liver	A1-Excellent
Oils:Corn	B-Good

Oils:Cottonseed	B2-Good
Oils:Creosote	C-Fair
Oils:Diesel Fuel (20, 30, 40, 50)	B-Good
Oils:Fuel (1, 2, 3, 5A, 5B, 6)	A2-Excellent
Oils:Ginger	N/A
Oils:Hydraulic Oil (Petro)	A-Excellent
Oils:Hydraulic Oil (Synthetic)	A-Excellent
Oils:Lemon	N/A
Oils:Linseed	A2-Excellent
Oils:Mineral	B-Good
Oils:Olive	C-Fair
Oils:Orange	C1-Fair
Oils:Palm	A-Excellent
Oils:Peanut	A1-Excellent
Oils:Peppermint	N/A
Oils:Pine	D-Severe Effect
Oils:Rapeseed	N/A
Oils:Rosin	C1-Fair
Oils:Sesame Seed	A-Excellent
Oils:Silicone	A-Excellent
Oils:Soybean	A1-Excellent
Oils:Sperm (whale)	N/A
Oils:Tanning	N/A
Oils:Transformer	B-Good
Oils:Turbine	A1-Excellent
Oleic Acid	C2-Fair
Oleum 100%	D-Severe Effect
Oleum 25%	D-Severe Effect
Oxalic Acid (cold)	B-Good
Ozone	B-Good
Palmitic Acid	B1-Good
Paraffin	B-Good
Pentane	A-Excellent
Perchloric Acid	C-Fair
Perchloroethylene	C1-Fair
Petrolatum	B-Good
Petroleum	N/A
Phenol (10%)	C1-Fair
Phenol (Carbolic Acid)	D-Severe Effect
Phosphoric Acid (>40%)	B-Good
Phosphoric Acid (crude)	B2-Good
Phosphoric Acid (molten)	D-Severe Effect

Phosphoric Acid (S40%)	B-Good
Phosphoric Acid Anhydride	N/A
Phosphorus	A1-Excellent
Phosphorus Trichloride	D-Severe Effect
Photographic Developer	A-Excellent
Photographic Solutions	A-Excellent
Phthalic Acid	N/A
Phthalic Anhydride	D-Severe Effect
Picric Acid	D-Severe Effect
Plating Solutions, Antimony Plating 130°F	A-Excellent
Plating Solutions, Arsenic Plating 110°F	A-Excellent
Plating Solutions, Brass Plating: High-Speed Brass Bath 110°F	A-Excellent
Plating Solutions, Brass Plating: Regular Brass Bath 100°F	A-Excellent
Plating Solutions, Bronze Plating: Cu-Cd Bronze Bath R.T.	A-Excellent
Plating Solutions, Bronze Plating: Cu-Sn Bronze Bath 160°F	D-Severe Effect
Plating Solutions, Bronze Plating: Cu-Zn Bronze Bath 100°F	A-Excellent
Plating Solutions, Cadmium Plating: Cyanide Bath 90°F	A-Excellent
Plating Solutions, Cadmium Plating: Fluoborate Bath 100°F	A-Excellent
Plating Solutions, Chromium Plating: Barrel Chrome Bath 95°F	A-Excellent
Plating Solutions, Chromium Plating: Black Chrome Bath 115°F	A-Excellent
Plating Solutions, Chromium Plating: Chromic-Sulfuric Bath 130°F	A-Excellent
Plating Solutions, Chromium Plating: Fluoride Bath 130°F	A-Excellent
Plating Solutions, Chromium Plating: Fluosilicate Bath 95°F	A-Excellent
Plating Solutions, Copper Plating (Acid): Copper Fluoborate Bath 120°F	A-Excellent
Plating Solutions, Copper Plating (Acid): Copper Sulfate Bath R.T.	A-Excellent
Plating Solutions, Copper Plating (Cyanide): Copper Strike Bath 120°F	A-Excellent
Plating Solutions, Copper Plating (Cyanide): High-Speed Bath 180°F	D-Severe Effect
Plating Solutions, Copper Plating (Cyanide): Rochelle Salt Bath 150°F	D-Severe Effect
Plating Solutions, Copper Plating (Misc): Copper (Electroless)	A-Excellent
Plating Solutions, Copper Plating (Misc): Copper Pyrophosphate	A-Excellent
Plating Solutions, Gold Plating: Acid 75°F	A-Excellent
Plating Solutions, Gold Plating: Cyanide 150°F	D-Severe Effect
Plating Solutions, Gold Plating: Neutral 75°F	A-Excellent
Plating Solutions, Indium Sulfamate Plating R.T.	A-Excellent
Plating Solutions, Iron Plating: Ferrous Am Sulfate Bath 150°F	D-Severe Effect

Plating Solutions, Iron Plating: Ferrous Chloride Bath 190°F	D-Severe Effect
Plating Solutions, Iron Plating: Ferrous Sulfate Bath 150°F	D-Severe Effect
Plating Solutions, Iron Plating: Fluoborate Bath 145°F	D-Severe Effect
Plating Solutions, Iron Plating: Sulfamate 140°F	A-Excellent
Plating Solutions, Iron Plating: Sulfate-Chloride Bath 160°F	D-Severe Effect
Plating Solutions, Lead Fluoborate Plating	A-Excellent
Plating Solutions, Nickel Plating: Electroless 200°F	D-Severe Effect
Plating Solutions, Nickel Plating: Fluoborate 100-170°F	A-Excellent
Plating Solutions, Nickel Plating: High-Chloride 130-160°F	D-Severe Effect
Plating Solutions, Nickel Plating: Sulfamate 100-140°F	A-Excellent
Plating Solutions, Nickel Plating: Watts Type 115-160°F	D-Severe Effect
Plating Solutions, Rhodium Plating 120°F	A-Excellent
Plating Solutions, Silver Plating 80-120°F	A-Excellent
Plating Solutions, Tin-Fluoborate Plating 100°F	A-Excellent
Plating Solutions, Tin-Lead Plating 100°F	A-Excellent
Plating Solutions, Zinc Plating: Acid Chloride 140°F	A-Excellent
Plating Solutions, Zinc Plating: Acid Fluoborate Bath R.T.	A-Excellent
Plating Solutions, Zinc Plating: Acid Sulfate Bath 150°F	D-Severe Effect
Plating Solutions, Zinc Plating: Alkaline Cyanide Bath R.T.	A-Excellent
Potash (Potassium Carbonate)	A-Excellent
Potassium Bicarbonate	A-Excellent
Potassium Bromide	A-Excellent
Potassium Chlorate	A-Excellent
Potassium Chloride	A-Excellent
Potassium Chromate	A-Excellent
Potassium Cyanide Solutions	A-Excellent
Potassium Dichromate	A-Excellent
Potassium Ferricyanide	A-Excellent
Potassium Ferrocyanide	A-Excellent
Potassium Hydroxide (Caustic Potash)	A1-Excellent
Potassium Hypochlorite	B1-Good
Potassium Iodide	A2-Excellent
Potassium Nitrate	A-Excellent
Potassium Oxalate	N/A
Potassium Permanganate	A1-Excellent
Potassium Sulfate	A2-Excellent
Potassium Sulfide	A2-Excellent
Propane (liquefied)	A1-Excellent
Propylene	B1-Good
Propylene Glycol	C1-Fair
Pyridine	D-Severe Effect
Pyrogallic Acid	A-Excellent

Resorcinol	C-Fair
Rosins	C1-Fair
Rum	A-Excellent
Rust Inhibitors	N/A
Salad Dressings	N/A
Salicylic Acid	B1-Good
Salt Brine (NaCl saturated)	A-Excellent
Sea Water	A2-Excellent
Shellac (Bleached)	N/A
Shellac (Orange)	N/A
Silicone	A-Excellent
Silver Bromide	N/A
Silver Nitrate	A1-Excellent
Soap Solutions	A-Excellent
Soda Ash (see Sodium Carbonate)	A-Excellent
Sodium Acetate	B1-Good
Sodium Aluminate	N/A
Sodium Benzoate	B1-Good
Sodium Bicarbonate	A2-Excellent
Sodium Bisulfate	A2-Excellent
Sodium Bisulfite	A2-Excellent
Sodium Borate (Borax)	A2-Excellent
Sodium Bromide	B2-Good
Sodium Carbonate	A2-Excellent
Sodium Chlorate	A1-Excellent
Sodium Chloride	A2-Excellent
Sodium Chromate	N/A
Sodium Cyanide	A2-Excellent
Sodium Ferrocyanide	A-Excellent
Sodium Fluoride	A2-Excellent
Sodium Hydrosulfite	C-Fair
Sodium Hydroxide (20%)	A-Excellent
Sodium Hydroxide (50%)	A-Excellent
Sodium Hydroxide (80%)	A-Excellent
Sodium Hypochlorite (<20%)	A-Excellent
Sodium Hypochlorite (100%)	B-Good
Sodium Hyposulfate	N/A
Sodium Metaphosphate	A-Excellent
Sodium Metasilicate	A-Excellent
Sodium Nitrate	A2-Excellent
Sodium Perborate	A2-Excellent
Sodium Peroxide	B2-Good

Sodium Polyphosphate	A1-Excellent
Sodium Silicate	A2-Excellent
Sodium Sulfate	A2-Excellent
Sodium Sulfide	A2-Excellent
Sodium Sulfite	A2-Excellent
Sodium Tetraborate	A2-Excellent
Sodium Thiosulfate (hypo)	A2-Excellent
Sorghum	N/A
Soy Sauce	N/A
Stannic Chloride	A2-Excellent
Stannic Fluoborate	N/A
Stannous Chloride	A1-Excellent
Starch	A-Excellent
Stearic Acid	B2-Good
Stoddard Solvent	C1-Fair
Styrene	D-Severe Effect
Sugar (Liquids)	N/A
Sulfate (Liquors)	B-Good
Sulfur Chloride	C1-Fair
Sulfur Dioxide	A1-Excellent
Sulfur Dioxide (dry)	A2-Excellent
Sulfur Hexafluoride	B-Good
Sulfur Trioxide	A-Excellent
Sulfur Trioxide (dry)	A1-Excellent
Sulfuric Acid (<10%)	A1-Excellent
Sulfuric Acid (10-75%)	A1-Excellent
Sulfuric Acid (75-100%)	D-Severe Effect
Sulfuric Acid (cold concentrated)	D-Severe Effect
Sulfuric Acid (hot concentrated)	D-Severe Effect
Sulfurous Acid	A2-Excellent
Sulfuryl Chloride	N/A
Tallow	N/A
Tannic Acid	A1-Excellent
Tanning Liquors	A1-Excellent
Tartaric Acid	A1-Excellent
Tetrachloroethane	C-Fair
Tetrachloroethylene	D-Severe Effect
Tetrahydrofuran	D-Severe Effect
Tin Salts	A-Excellent
Toluene (Toluol)	D-Severe Effect
Tomato Juice	A-Excellent
Trichloroacetic Acid	B-Good

Trichloroethane	C-Fair
Trichloroethylene	D-Severe Effect
Trichloropropane	N/A
Tricresylphosphate	D-Severe Effect
Triethylamine	B-Good
Trisodium Phosphate	A-Excellent
Turpentine	D-Severe Effect
Urea	D-Severe Effect
Uric Acid	A-Excellent
Urine	A-Excellent
Varnish	D-Severe Effect
Vegetable Juice	N/A
Vinegar	B-Good
Vinyl Acetate	D-Severe Effect
Vinyl Chloride	D-Severe Effect
Water, Acid, Mine	B-Good
Water, Deionized	A2-Excellent
Water, Distilled	A2-Excellent
Water, Fresh	B-Good
Water, Salt	B-Good
Weed Killers	N/A
Whey	N/A
Whiskey & Wines	A2-Excellent
White Liquor (Pulp Mill)	A2-Excellent
White Water (Paper Mill)	A-Excellent
Xylene	D-Severe Effect
Zinc Chloride	B-Good
Zinc Hydrosulfite	N/A
Zinc Sulfate	A2-Excellent