

TECHNICAL DATA SHEET

Engineering plastic type DG/DL

General notes:

- POM/GF30 acetal resin reinforced with 30 wt% glass fibre
- good tensile and flexural strength, fatigue and creep resistance
- low friction, good wear and abrasion resistance
- low moisture absorption
- good chemical resistance (oils, grease, fuels, organic solvents); not resistant to strong acids, alkalis and oxidizing agents; good hydrolytic resistance (hot water)
- insulating
- typical applications include handling of very scratch sensitive components (ceramic and glass devices, wafers, capillary)

Mechanical properties

Flexural modulus +23°C	8000 MPa	ASTM D 790
Flexural modulus +60°C	5700 MPa	ASTM D 790
Flexural modulus +90°C	4500 MPa	ASTM D 790
Flexural modulus +120°C	3800 MPa	ASTM D 790
Tensile strength +23°C	83 MPa	ISO 527
Tensile strength +60°C	60 MPa	ISO 527
Tensile strength +90°C	53 MPa	ISO 527
Tensile strength +120°C	45MPa	ISO 527
Rockwell hardness M	85	ASTM D 785
Izod-Impact strength (notched) +23°C	55 J/m	ASTM D 256
Charpy-Impact strength (unnotched) +23°C	20 kJ/m ²	DIN 53453

Thermal properties

Temp. of defl. under load (1.80 MPa)	162 °C	ASTM D648
Temp. of defl. under load (0.45 MPa)	165 °C	ASTM D648
Vicat softening temperature (50°C/h 50N)	156 °C	ISO 306
Coef. of lin. therm expansion, normal	4.50 E-5/°C	ASTM D 696
Continuous Use Temperature	85°C	20'000 h
Short Time Temperature	120°C	

Electrical properties

Comparative tracking index	>600 Volts	IEC 112
Electric strength (2mm)	23.0 kV/mm	IEC 243-1

This document contains information based on average values as obtained from the results of laboratory tests and observations made on the material. Ideal-Tek SA declines all responsibility from an improper use of the product described in this document.





Other properties

Density	1.59 g/ccm	ISO 1183
Color	DG white	
	DL black	
Water absorption in water 23°C (24h)	0.20%	ISO 62

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Chemical Compatibility Plastic Material Chart for CF, CP, LC, SV and DG

Ratings -- Chemical Effect

A = Excellent. B = Good Minor Effect, slight corrosion o	r discoloration				
C = Fair Moderate Effect, not recommend		g, loss of strength, swe	elling may occur.		
D = Severe Effect, not recommended for A	NY use. $N/A = Information Not A$	Available.			
Explanation of Footnotes 1. Satisfactory to 72°F (22° C)					
2. Satisfactory to 120°F (48° C)	CF.	CP	LC	SV	DG
Chemical Acetaldehyde	CF A- Excellent	A- Excellent	A- Excellent	D- Severe Effect	A- Excellent
cetamide	A- Excellent	N/A	A- Excellent	C- Fair	A- Excellent
cetate Solvent	A- Excellent	N/A	A- Excellent	A- Excellent	N/A
cetic Acid	D- Severe Effect	A- Excellent	A- Excellent	C- Fair	D- Severe Effect
cetic Acid 20%	D- Severe Effect D- Severe Effect	A- Excellent A- Excellent	A- Excellent A- Excellent	A- Excellent C- Fair	C- Fair D- Severe Effect
Acetic Acid, Glacial	B- Good	A- Excellent	A- Excellent	A1- Excellent	D- Severe Effect
cetic Anhydride	A1- Excellent	N/A	A- Excellent	B1- Good	D- Severe Effect
cetyl Bromide	A- Excellent D- Severe Effect	A- Excellent N/A	A- Excellent N/A	D- Severe Effect N/A	A- Excellent N/A
cetyl Chloride (dry)	B- Good	N/A N/A	A- Excellent	A2- Excellent	D- Severe Effect
cetylene	A- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
crylonitrile	A1- Excellent	A1- Excellent	N/A	A1- Excellent	N/A
Adipic Acid	N/A	N/A	N/A	A2- Excellent	N/A
lcohols:Amyl lcohols:Benzyl	A1- Excellent B1- Good	N/A A- Excellent	A- Excellent A- Excellent	A- Excellent A- Excellent	A- Excellent A- Excellent
lcohols:Butyl	D- Severe Effect	N/A	A- Excellent	A- Excellent	A- Excellent
lcohols:Diacetone	A- Excellent	N/A	N/A	A1- Excellent	A- Excellent
lcohols:Ethyl	A1- Excellent	N/A	A- Excellent	N/A	A1- Excellent
lcohols:Hexyl lcohols:Isobutyl	A- Excellent	N/A	N/A	N/A	A- Excellent
lcohols:Isobutyl	A1- Excellent D- Severe Effect	N/A A- Excellent	N/A A- Excellent	N/A N/A	A- Excellent A- Excellent
lcohols:Methyl	B1- Good	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Alcohols:Octyl	A- Excellent		N/A	N/A	A- Excellent
lcohols:Propyl	D- Severe Effect	A- Excellent	A- Excellent	A2- Excellent	A- Excellent
Numinum Chloride	B1- Good	A- Excellent	A- Excellent	A- Excellent	N/A
Numinum Chloride 20%	D- Severe Effect A1- Excellent	N/A N/A	A- Excellent A- Excellent	A- Excellent A- Excellent	C- Fair C- Fair
Numinum Hydroxide	A1- Excellent	N/A	N/A	A- Excellent	A- Excellent
luminum Nitrate	A1- Excellent	N/A	N/A	A2- Excellent	B1- Good
luminum Potassium Sulfate 10%	D- Severe Effect	N/A	N/A	B- Good	C- Fair
Juminum Potassium Sulfate 100%	D- Severe Effect	N/A	N/A	N/A	C- Fair
Numinum Sulfate	A2- Excellent A- Excellent	A- Excellent A- Excellent	A- Excellent N/A	A- Excellent N/A	B1- Good N/A
Amines	D- Severe Effect	N/A	B- Good	N/A	D- Severe Effect
Ammonia 10%	A- Excellent	A- Excellent	A1- Excellent	A- Excellent	D- Severe Effect
Ammonia Nitrate	D- Severe Effect	N/A	A- Excellent	A- Excellent	C- Fair
Ammonia, anhydrous	A1- Excellent	A- Excellent	A1- Excellent	A- Excellent	D- Severe Effect
Ammonia, liquid	B1- Good A- Excellent	A- Excellent N/A	A1- Excellent N/A	A- Excellent N/A	D- Severe Effect N/A
Ammonium Bifluoride	N/A	N/A	N/A	A- Excellent	D- Severe Effect
Ammonium Carbonate	A1- Excellent	N/A	A- Excellent	A- Excellent	D- Severe Effect
Ammonium Caseinate	N/A	N/A	N/A	N/A	D- Severe Effect
ammonium Chloride	B- Good	A- Excellent	A- Excellent	A- Excellent	B- Good
Ammonium Hydroxide Ammonium Nitrate	A- Excellent A1- Excellent	A- Excellent A- Excellent	A- Excellent A- Excellent	A- Excellent A- Excellent	C- Fair A2- Excellent
mmonium Oxalate	N/A	N/A	N/A	N/A	B- Good
mmonium Persulfate	D- Severe Effect	N/A	N/A	A1- Excellent	D- Severe Effect
mmonium Phosphate, Dibasic	C1- Fair	N/A	A- Excellent	A- Excellent	B2- Good
ammonium Phosphate, Monobasic	B- Good B- Good	N/A N/A	N/A N/A	N/A N/A	B- Good B- Good
ammonium Priospriate, Tribasic	A1- Excellent	N/A	A- Excellent	A- Excellent	B1- Good
mmonium Sulfite	A1- Excellent	N/A	N/A	N/A	D- Severe Effect
mmonium Thiosulfate	N/A	N/A	N/A	N/A	B- Good
amyl Alcohol	B2- Good	A- Excellent	A- Excellent	A2- Excellent	B1- Good
myl Alcohol	A1- Excellent C1- Fair	N/A N/A	A- Excellent N/A	A- Excellent A- Excellent	A- Excellent A- Excellent
niline	A2- Excellent	A- Excellent	A- Excellent	A1- Excellent	A1- Excellent
niline Hydrochloride	D- Severe Effect	N/A	N/A	A2- Excellent	N/A
ntifreeze	D- Severe Effect	N/A	A- Excellent	N/A	D- Severe Effect
Antimony Trichloride	D- Severe Effect	A- Excellent	N/A	A- Excellent	N/A
uqua Regia (80% HCl, 20% HNO3) urochlor 1248	D- Severe Effect A1- Excellent	N/A N/A	D- Severe Effect N/A	A2- Excellent N/A	D- Severe Effect N/A
romatic Hydrocarbons	N/A	N/A	N/A	N/A	A- Excellent
rsenic Acid	C1- Fair	N/A	A- Excellent	A- Excellent	D- Severe Effect
rsenic Salts	A- Excellent	N/A	N/A	N/A	N/A
sphalt	A- Excellent	N/A A Excellent	A- Excellent	A- Excellent	B2- Good
arium Carbonate arium Chloride	A1- Excellent A- Excellent	A- Excellent A- Excellent	A2- Excellent A- Excellent	A- Excellent A- Excellent	A- Excellent A- Excellent
arium Cyanide	A1- Excellent	A- Excellent	N/A	N/A	B- Good
Barium Hydroxide	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect
arium Nitrate	A1- Excellent	A- Excellent	N/A	N/A	B2- Good
Parium Sulfate	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	B2- Good
Sarium Sulfide Seer	A1- Excellent A1- Excellent	A- Excellent A- Excellent	N/A A2- Excellent	A- Excellent A- Excellent	A- Excellent A1- Excellent
eer Beet Sugar Liquids	A1- Excellent A- Excellent	N/A	N/A	A- Excellent	B- Good
Benzaldehyde	A1- Excellent	N/A	A- Excellent	A2- Excellent	A- Excellent
enzene	A1- Excellent	A- Excellent	A- Excellent	A2- Excellent	A1- Excellent
Benzene Sulfonic Acid	D- Severe Effect	C- Fair	A- Excellent	N/A	N/A
Benzoic Acid	D- Severe Effect	A- Excellent	A1- Excellent	A- Excellent	B- Good

Chemical	CF	СР	LC	sv	DG
Benzonitrile	N/A	N/A	A2- Excellent	N/A	N/A
Benzyl Chloride	A2- Excellent	N/A	A2- Excellent	N/A	A- Excellent
Bleaching Liquors	C- Fair	A- Excellent	N/A	N/A	N/A
Borax (Sodium Borate)	A- Excellent	N/A	A- Excellent	A- Excellent	B- Good
Boric Acid	B- Good	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Brewery Slop	N/A	N/A	N/A	N/A	B- Good
Bromine	D- Severe Effect	D- Severe Effect	D- Severe Effect	A- Excellent	D- Severe Effect
Butadiene	C1- Fair	N/A	A1- Excellent	A- Excellent	A- Excellent
Butane	A2- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
	B1- Good	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Butanol (Butyl Alcohol)					
Butter	N/A	N/A	N/A	N/A	A- Excellent
Buttermilk	B1- Good	N/A	N/A	N/A	A- Excellent
Butyl Amine	A2- Excellent	N/A	D- Severe Effect	A1- Excellent	C1- Fair
Butyl Ether	A2- Excellent	N/A	A2- Excellent	A1- Excellent	D- Severe Effect
Butyl Phthalate	A2- Excellent	N/A	A- Excellent	B1- Good	N/A
Butylacetate	A- Excellent	A- Excellent	A- Excellent	B2- Good	A- Excellent
Butylene	B1- Good	N/A	A- Excellent	A- Excellent	A- Excellent
Butyric Acid	C1- Fair	N/A	A- Excellent	A- Excellent	A- Excellent
Calcium Bisulfate	N/A	N/A	N/A	N/A	N/A
Calcium Bisulfide	A- Excellent	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect
Calcium Bisulfite	A2- Excellent	N/A	A- Excellent	A- Excellent	D- Severe Effect
Calcium Carbonate	A- Excellent	A- Excellent	N/A	A- Excellent	A- Excellent
Calcium Chlorate	N/A	N/A	N/A	A- Excellent	A- Excellent
Calcium Chloride	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect
Calcium Hydroxide	A2- Excellent	A- Excellent	A- Excellent	A2- Excellent	D- Severe Effect
Calcium Hypochlorite	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect
Calcium Nitrate	A1- Excellent	A- Excellent	A- Excellent	A2- Excellent	D- Severe Effect
Calcium Oxide	B- Good	N/A	A- Excellent	A- Excellent	A- Excellent
Calcium Oxide Calcium Sulfate	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect
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Calgon	A- Excellent	N/A	N/A	N/A	A- Excellent
Cane Juice	A- Excellent	N/A	N/A	A1- Excellent	A- Excellent
Carbolic Acid (Phenol)	D- Severe Effect	A- Excellent	A- Excellent	A1- Excellent	D- Severe Effect
Carbon Bisulfide	A- Excellent	N/A	A- Excellent	N/A	A- Excellent
Carbon Dioxide (dry)	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Carbon Dioxide (wet)	A1- Excellent	N/A	A- Excellent	A- Excellent	A- Excellent
Carbon Disulfide	B1- Good	N/A	A- Excellent	B2- Good	A1- Excellent
Carbon Monoxide	A1- Excellent	A- Excellent	N/A	B- Good	A- Excellent
Carbon Tetrachloride	D- Severe Effect	A- Excellent	A- Excellent	A2- Excellent	B1- Good
		N/A	A2- Excellent		
Carbon Tetrachloride (dry)	N/A			A2- Excellent	N/A
Carbon Tetrachloride (wet)	N/A	N/A	A2- Excellent	A2- Excellent	A1- Excellent
Carbonated Water	A- Excellent	N/A	A- Excellent	N/A	A- Excellent
Carbonic Acid	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	B1- Good
Catsup	A- Excellent	N/A	N/A	N/A	B- Good
Chloric Acid	D- Severe Effect	N/A	N/A	N/A	D- Severe Effect
Chlorinated Glue	N/A	N/A	N/A	N/A	D- Severe Effect
Chlorine (dry)	D- Severe Effect	A- Excellent	D- Severe Effect	A- Excellent	D- Severe Effect
Chlorine Water	C1- Fair	D- Severe Effect	D- Severe Effect	B- Good	D- Severe Effect
Chlorine, Anhydrous Liquid	D- Severe Effect	D- Severe Effect	D- Severe Effect	A1- Excellent	A1- Excellent
Chloroacetic Acid	D- Severe Effect	A- Excellent	A- Excellent	A1- Excellent	D- Severe Effect
Chlorobenzene (Mono)	D- Severe Effect	N/A	A- Excellent	A1- Excellent	D- Severe Effect
Chlorobromomethane	C- Fair	N/A	N/A	N/A	N/A
Chloroform	A- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Chlorosulfonic Acid	D- Severe Effect	D- Severe Effect	D- Severe Effect	D- Severe Effect	D- Severe Effect
Chocolate Syrup	A- Excellent	N/A	N/A	N/A	A- Excellent
Chromic Acid 10%	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect
Chromic Acid 30%	D- Severe Effect	A- Excellent	B- Good	A2- Excellent	D- Severe Effect
Chromic Acid 5%	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect
Chromic Acid 50%	D- Severe Effect	D- Severe Effect	A1- Excellent	A2- Excellent	D- Severe Effect
Chromium Salts	B- Good	N/A	N/A	N/A	N/A
Cider	A- Excellent	N/A	N/A	N/A	A- Excellent
Citric Acid	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	B1- Good
Citric Oils	N/A	N/A	N/A	N/A	B- Good
Clorox® (Bleach)	14//				
	A- Excellent	N/A	D- Severe Effect	A- Excellent	D- Severe Effect
Coffee					
Coffee Copper Chloride	A- Excellent	N/A	D- Severe Effect	A- Excellent	D- Severe Effect
Copper Chloride	A- Excellent A- Excellent D- Severe Effect	N/A N/A A- Excellent	D- Severe Effect N/A A- Excellent	A- Excellent N/A A- Excellent	D- Severe Effect A- Excellent A- Excellent
Copper Chloride Copper Cyanide	A- Excellent A- Excellent D- Severe Effect D- Severe Effect	N/A N/A A- Excellent A- Excellent	D- Severe Effect N/A A- Excellent A- Excellent	A- Excellent N/A A- Excellent A- Excellent	D- Severe Effect A- Excellent A- Excellent A- Excellent
Copper Chloride Copper Cyanide Copper Fluoborate	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A	N/A N/A A- Excellent A- Excellent N/A	D- Severe Effect N/A A- Excellent A- Excellent N/A	A- Excellent N/A A- Excellent A- Excellent N/A	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect	N/A N/A A- Excellent A- Excellent N/A A- Excellent	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent	A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good A- Excellent
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5%	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect D- Severe Effect	N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent	A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 5%	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect D- Severe Effect D- Severe Effect D- Severe Effect	N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent	A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect D- Severe Effect
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5%	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect D- Severe Effect	N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent N/A	A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect D- Severe Effect A- Excellent
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 5%	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect D- Severe Effect D- Severe Effect D- Severe Effect	N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent	A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect D- Severe Effect
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 5% Cream	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect D- Severe Effect D- Severe Effect A- Excellent	N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent N/A	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent N/A	A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent N/A	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect D- Severe Effect A- Excellent
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 5% Cream Cresols Cresylic Acid	A- Excellent A- Excellent D- Severe Effect D- Severe Effect NIA D- Severe Effect A- Excellent D- Severe Effect	N/A N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A N/A N/A	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent N/A	A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent N/A A- Excellent N/A A2- Excellent	D- Severe Effect A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 5% Cream Cresols Cresylic Acid Cupric Acid	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect	N/A N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A N/A N/A N/A N/A N/A	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent	A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent B1- Good N/A	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect D- Severe Effect A- Excellent D- Severe Effect A- Excellent D- Severe Effect N/A
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 5% Cream Cresolis Cresylic Acid Cupric Acid Cyanic Acid	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect A- Excellent D- Severe Effect D- Severe Effect D- Severe Effect N/A	N/A N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A N/A N/A N/A N/A N/A N/A N/A N/A	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent	A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent B- Excellent N/A A- Excellent N/A N/A	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect D- Severe Effect A- Excellent D- Severe Effect A- Excellent D- Severe Effect A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 5% Cream Cresols Cresylic Acid Cyanic Acid Cyanic Acid Cyclohexane	A- Excellent A- Excellent D- Severe Effect N/A D- Severe Effect A- Excellent D- Severe Effect D- Severe Effect D- Severe Effect A- Excellent A- Excellent N/A A- Excellent	N/A N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A N/A N/A N/A N/A N/A A- Excellent	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent	A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A- Excellent N/A A2- Excellent B1- Good N/A N/A A- Excellent	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect N/A D- Severe Effect A1- Excellent
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 5% Cream Cresols Cresylic Acid Cupric Acid Cyanic Acid Cyclohexane Cyclohexanoe	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect A- Excellent D- Severe Effect D- Severe Effect D- Severe Effect A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent	N/A N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent N/A	D- Severe Effect N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A- Excellent A- Excellent	A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent N/A A- Excellent N/A A2- Excellent B1- Good N/A N/A A- Excellent D- Severe Effect	D- Severe Effect A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect A- Excellent D- Severe Effect N/A D- Severe Effect A1- Excellent A- Excellent
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 5% Cream Cresolis Cresylic Acid Cupric Acid Cyanic Acid Cyclohexane Cyclohexanone Detergents	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect A- Excellent D- Severe Effect D- Severe Effect D- Severe Effect A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent	N/A N/A N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent N/A	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent	A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A2- Excellent B1- Good N/A N/A A- Excellent D- Severe Effect A- Excellent	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect A- Excellent D- Severe Effect N/A D- Severe Effect A1- Excellent A- Excellent A1- Excellent
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 5% Cream Cresols Cresylic Acid Cupric Acid Cyanic Acid Cyclohexane Cyclohexane Detergents Diacetone Alcohol	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect D- Severe Effect D- Severe Effect D- Severe Effect A- Excellent D- Severe Effect A- Excellent A- Excellent A- Excellent A- Excellent A1- Excellent A1- Excellent	N/A N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent	A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A2- Excellent N/A A2- Excellent B1- Good N/A N/A A- Excellent D- Severe Effect A- Excellent D- Severe Effect	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect D- Severe Effect A- Excellent D- Severe Effect A- Excellent D- Severe Effect A- Excellent A- Excellent A1- Excellent A1- Excellent A1- Excellent A1- Excellent A1- Excellent
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 5% Cream Cresols Cresylic Acid Cupric Acid Cyanic Acid Cyclohexane Cyclohexane Detergents Diacetone Alcohol	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect A- Excellent D- Severe Effect D- Severe Effect D- Severe Effect A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent	N/A N/A N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent N/A	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent	A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A2- Excellent B1- Good N/A N/A A- Excellent D- Severe Effect A- Excellent	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect A- Excellent D- Severe Effect N/A D- Severe Effect A1- Excellent A- Excellent A1- Excellent
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 5% Cream Cresols Cresolic Acid Cupric Acid Cyanic Acid Cyclohexane Cyclohexane Detergents Diacetone Alcohol Dichlorobenzene	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect D- Severe Effect D- Severe Effect D- Severe Effect A- Excellent D- Severe Effect A- Excellent A- Excellent A- Excellent A- Excellent A1- Excellent A1- Excellent	N/A N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent	A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A2- Excellent B1- Good N/A N/A A- Excellent D- Severe Effect D- Severe Effect	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect D- Severe Effect A- Excellent D- Severe Effect A- Excellent D- Severe Effect A- Excellent A- Excellent A1- Excellent A1- Excellent A1- Excellent A1- Excellent
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 5% Cream Cresols Cresylic Acid Cyanic Acid Cyanic Acid Cyclohexane Cyclohexane Detergents Diacetone Alcohol Dichlorobetnane	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect N/A A- Excellent A- Excellent A1- Excellent A1- Excellent D- Severe Effect	N/A N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A N/A N/A	A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent D- Severe Effect A- Excellent D- Severe Effect A- Excellent	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect D- Severe Effect A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent N/A N/A
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 55% Cream Cresols Cresylic Acid Cupric Acid Cyanic Acid Cyclohexane Cyclohexane Eyclohexanone Detergents Diacetone Alcohol Dichlorobenzene Dichlorobenzene Dichlorobethane Diesel Fuel	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect D- Severe Effect D- Severe Effect D- Severe Effect C- Severe Effect D- Severe Effect D- Severe Effect D- Severe Effect D- Severe Effect A- Excellent A- Excellent A- Excellent A- Excellent A1- Excellent D- Severe Effect A1- Excellent A1- Excellent A1- Excellent A1- Excellent A1- Excellent A- Excellent A- Excellent A- Excellent A- Excellent	N/A N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent N/A N/A N/A N/A N/A N/A N/A N/A N/A A- Excellent N/A	D- Severe Effect N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent N/A N/A A- Excellent A- Excellent N/A N/A A- Excellent N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent	A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A2- Excellent B1- Good N/A N/A A- Excellent D- Severe Effect A- Excellent	D- Severe Effect A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect N/A D- Severe Effect A1- Excellent A- Excellent A- Excellent A1- Excellent
Copper Chloride Copper Cyanide Copper Fluoborate Copper Fluoborate Copper Sulfate >5% Copper Sulfate >5% Copper Sulfate 5% Cream Cresols Cresylic Acid Cupric Acid Cyanic Acid Cyclohexane Cyclohexanoe Detergents Diacetone Alcohol Dichlorobenzene Dichlorobethane Diesel Fuel Diethyl Ether	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect D- Severe Effect D- Severe Effect D- Severe Effect A- Excellent D- Severe Effect D- Severe Effect D- Severe Effect D- Severe Effect A- Excellent A- Excellent A- Excellent A- Excellent A1- Excellent A1- Excellent A1- Excellent A- Excellent	N/A N/A N/A N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent N/A N/A N/A N/A N/A N/A N/A N/A A- Excellent N/A N/A A- Excellent N/A N/A N/A N/A N/A A- Excellent N/A N/A N/A N/A N/A A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A- Excellent	A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A- Excellent B1- Good N/A N/A A- Excellent D- Severe Effect A- Excellent D- Severe Effect A- Excellent	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect N/A D- Severe Effect N/A A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent N/A N/A A1- Excellent A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent
Copper Chloride Copper Cyanide Copper Fluoborate Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 5% Cream Cresols Cresols Cresylic Acid Cupric Acid Cyanic Acid Cyclohexane Cyclohexane Detergents Diacetone Alcohol Dichloroethane Diesel Fuel Diethyl Ether Diethylamine	A- Excellent A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect D- Severe Effect D- Severe Effect A- Excellent D- Severe Effect N/A A- Excellent A- Excellent A- Excellent A1- Excellent D- Severe Effect A1- Excellent A- Excellent	N/A N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A N/A N/A N/A N/A N/A N/A A- Excellent N/A N/A N/A A- Excellent N/A N/A N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent	A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent N/A A2- Excellent B1- Good N/A N/A A- Excellent D- Severe Effect A- Excellent A- Excellent A- Excellent D- Severe Effect A- Excellent	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect D- Severe Effect A- Excellent D- Severe Effect A- Excellent D- Severe Effect A- Excellent D- Severe Effect N/A D- Severe Effect A1- Excellent A- Excellent A- Excellent A- Excellent N/A N/A A1- Excellent A- Excellent N/A B- Good
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 5% Copper Sulfate 5% Cream Cresols Cresylic Acid Cupric Acid Cyclohexane Cyclohexanone Detergents Diacetone Alcohol Dichloroethane Diesel Fuel Diethyl Ether Diethylene Glycol	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect A- Excellent D- Severe Effect D- Severe Effect D- Severe Effect D- Severe Effect A- Excellent A- Excellent A- Excellent A- Excellent A1- Excellent D- Severe Effect A1- Excellent A1- Excellent A- Excellent	N/A N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent N/A N/A N/A N/A N/A N/A N/A A- Excellent N/A N/A A- Excellent A- Excellent N/A N/A N/A A- Excellent A- Excellent N/A	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent	A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent B1- Good N/A N/A A- Excellent D- Severe Effect A- Excellent	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect N/A D- Severe Effect A1- Excellent A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent A1- Excellent
Copper Chloride Copper Cyanide Copper Fluoborate Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 5% Cream Cresols Cresylic Acid Cyanic Acid Cyanic Acid Cyclohexane Cyclohexane Detergents Diacetone Alcohol Dichlorobenzene Dichloroethane Diesel Fuel Diethyl Ether Diethylene Glycol Dimethyl Aniline	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect A- Excellent A- Excellent A- Excellent A- Excellent A1- Excellent D- Severe Effect N/A A- Excellent A1- Excellent	N/A N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent N/A N/A N/A N/A N/A N/A A- Excellent N/A N/A A- Excellent N/A N/A N/A A- Excellent A- Excellent A- Excellent N/A N/A A- Excellent N/A N/A N/A N/A N/A N/A N/A N/A N/A	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent	A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A2- Excellent B1- Good N/A N/A A- Excellent D- Severe Effect A- Excellent A- Excellent A- Excellent D- Severe Effect A- Excellent	D- Severe Effect A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect N/A D- Severe Effect A1- Excellent A- Excellent A- Excellent A- Excellent A- Excellent N/A N/A A1- Excellent A- Excellent A- Excellent D- Severe Effect N/A N/A A1- Excellent D- Severe Effect
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 5% Cresm Cresolis Cresylic Acid Cupric Acid Cyanic Acid Cyclohexane Cyclohexane Detergents Diacetone Alcohol Dichlorobenzene Dichlorotehlane Diesel Fuel Diethylamine Diethylamine Diethylaniline Dimethyl Formamide	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect A- Excellent	N/A N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent N/A N/A N/A N/A N/A N/A N/A N/A A- Excellent A- Excellent N/A	D- Severe Effect N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent	A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A- Excellent B1- Good N/A N/A A- Excellent D- Severe Effect A- Excellent A- Excellent D- Severe Effect A- Excellent D- Severe Effect A- Excellent D- Severe Effect A- Excellent A- Excellent D- Severe Effect A- Excellent D- Severe Effect A- Excellent D- Severe Effect	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect N/A D- Severe Effect A1- Excellent A- Excellent A2- Excellent A3- Excellent A4- Excellent A1- Excellent A1- Excellent A1- Excellent A2- Excellent A3- Excellent A4- Excellent A5- Excellent A6- Excellent A7- Excellent A7- Excellent A8- Excellent A9- Excellent A9- Excellent A9- Excellent A9- Excellent A9- Excellent B9- Good A1- Excellent D- Severe Effect D- Severe Effect
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 5% Creswise Cresylic Acid Cyanic Acid Cyanic Acid Cyanic Acid Cyclohexane Cyclohexane Detergents Diacetone Alcohol Dichlorobenzene Dichlorobenzene Dichlorobentane Diesel Fuel Diethyl Ether Diethylene Glycol Dimethyl Aniline Dimethyl Formamide Diphenyl	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect N/A A- Excellent A- Excellent A- Excellent A- Excellent A1- Excellent D- Severe Effect N/A A- Excellent A- Excellent A- Excellent A1- Excellent A- Excellent	N/A N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent N/A N/A N/A N/A N/A N/A A- Excellent N/A N/A A- Excellent N/A N/A N/A A- Excellent A- Excellent A- Excellent N/A N/A A- Excellent N/A N/A N/A N/A N/A N/A N/A N/A N/A	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent	A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A2- Excellent B1- Good N/A N/A A- Excellent D- Severe Effect A- Excellent A- Excellent A- Excellent D- Severe Effect A- Excellent	D- Severe Effect A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect N/A D- Severe Effect A1- Excellent A- Excellent A- Excellent A- Excellent A- Excellent N/A N/A A1- Excellent A- Excellent A- Excellent D- Severe Effect N/A N/A A1- Excellent D- Severe Effect
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 5% Cresm Cresolis Cresylic Acid Cupric Acid Cyanic Acid Cyclohexane Cyclohexane Detergents Diacetone Alcohol Dichlorobenzene Dichlorotehlane Diesel Fuel Diethylamine Diethylamine Diethylaniline Dimethyl Formamide	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect A- Excellent	N/A N/A N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent A- Excellent N/A N/A N/A N/A N/A N/A N/A N/A A- Excellent A- Excellent N/A	D- Severe Effect N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent N/A A- Excellent	A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A- Excellent B1- Good N/A N/A A- Excellent D- Severe Effect A- Excellent A- Excellent D- Severe Effect A- Excellent D- Severe Effect A- Excellent D- Severe Effect A- Excellent A- Excellent D- Severe Effect A- Excellent D- Severe Effect A- Excellent D- Severe Effect	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect N/A D- Severe Effect A1- Excellent A- Excellent A2- Excellent A3- Excellent A4- Excellent A1- Excellent A1- Excellent A1- Excellent A2- Excellent A3- Excellent A4- Excellent A5- Excellent A6- Excellent A7- Excellent A7- Excellent A8- Excellent A9- Excellent A9- Excellent A9- Excellent A9- Excellent A9- Excellent B9- Good A1- Excellent D- Severe Effect D- Severe Effect
Copper Chloride Copper Cyanide Copper Fluoborate Copper Nitrate Copper Sulfate >5% Copper Sulfate 5% Creswise Cresylic Acid Cyanic Acid Cyanic Acid Cyanic Acid Cyclohexane Cyclohexane Detergents Diacetone Alcohol Dichlorobenzene Dichlorobenzene Dichlorobentane Diesel Fuel Diethyl Ether Diethylene Glycol Dimethyl Aniline Dimethyl Formamide Diphenyl	A- Excellent A- Excellent D- Severe Effect D- Severe Effect N/A D- Severe Effect N/A A- Excellent A- Excellent A- Excellent A- Excellent A1- Excellent D- Severe Effect N/A A- Excellent A- Excellent A- Excellent A1- Excellent A- Excellent	N/A N/A N/A N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent N/A N/A N/A N/A N/A N/A N/A N/A N/A A- Excellent N/A N/A N/A N/A N/A N/A N/A N/A A- Excellent N/A N/A A- Excellent N/A N/A N/A A- Excellent N/A N/A N/A A- Excellent	D- Severe Effect N/A A- Excellent A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent	A- Excellent N/A A- Excellent N/A A- Excellent N/A A- Excellent A- Excellent A- Excellent N/A A- Excellent B1- Good N/A N/A A- Excellent D- Severe Effect A- Excellent A- Excellent D- Severe Effect A- Excellent D- Severe Effect A- Excellent D- Severe Effect A- Excellent C- Excellent A- Excellent A- Excellent A- Excellent A- Excellent A- Excellent D- Severe Effect N/A	D- Severe Effect A- Excellent A- Excellent A- Excellent B- Good A- Excellent D- Severe Effect N/A D- Severe Effect A1- Excellent A- Excellent A1- Excellent A1- Excellent N/A N/A N/A N/A S- Excellent A- Excellent A- Excellent D- Severe Effect N/A S- Excellent D- Severe Effect N/A S- Excellent D- Severe Effect D- Severe Effect

Chemical Encom Salta (Magnesium Sulfate)	CF A1 Eventlent	CP N/A	LC A Excellent	SV A Excellent	DG B. Good
Epsom Salts (Magnesium Sulfate) Ethane	A1- Excellent D- Severe Effect	N/A A- Excellent	A- Excellent A- Excellent	A- Excellent A- Excellent	B- Good A1- Excellent
Ethanol	A1- Excellent	N/A	A- Excellent	N/A	A1- Excellent
Ethanolamine	A- Excellent	N/A	A- Excellent	C1- Fair	D- Severe Effect
Ether	A- Excellent	N/A	A- Excellent	B1- Good	A1- Excellent
Ethyl Acetate	A2- Excellent	A- Excellent	A- Excellent	D- Severe Effect	A- Excellent
Ethyl Benzoate	N/A	N/A	N/A	D- Severe Effect	N/A
Ethyl Chloride	A1- Excellent	N/A	A- Excellent	A- Excellent	A1- Excellent
Ethyl Ether	A1- Excellent	N/A	A- Excellent	A2- Excellent	A1- Excellent
Ethyl Sulfate	N/A	N/A	N/A	N/A	N/A
Ethylene Bromide	N/A	N/A	N/A	A- Excellent	N/A
Ethylene Chloride Ethylene Chlorohydrin	A- Excellent D- Severe Effect	N/A N/A	A- Excellent A2- Excellent	A- Excellent A- Excellent	A1- Excellent D- Severe Effect
Ethylene Diamine	D- Severe Effect	N/A	A- Excellent	B- Good	D- Severe Effect
Ethylene Dichloride	A1- Excellent	N/A	A- Excellent	A- Excellent	B1- Good
Ethylene Glycol	A- Excellent	A- Excellent	A- Excellent	A- Excellent	B- Good
Ethylene Oxide	A1- Excellent	A- Excellent	D- Severe Effect	A- Excellent	D- Severe Effect
Fatty Acids	A1- Excellent	A- Excellent	N/A	A- Excellent	A- Excellent
Ferric Chloride	A- Excellent	B- Good	A- Excellent	A- Excellent	D- Severe Effect
Ferric Nitrate	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect
Ferric Sulfate	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect
Ferrous Chloride	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect
Ferrous Sulfate	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect
Fluoboric Acid	D- Severe Effect	N/A	A- Excellent	A1- Excellent	A1- Excellent
Fluorine	D- Severe Effect	D- Severe Effect	D- Severe Effect	A1- Excellent	D- Severe Effect
Fluosilicic Acid	D- Severe Effect	N/A	A- Excellent	A1- Excellent	A1- Excellent
Formaldehyde 100%	D- Severe Effect	A- Excellent	B- Good	A- Excellent A- Excellent	A- Excellent
Formaldehyde 40% Formic Acid	A- Excellent D- Severe Effect	A- Excellent B- Good	A- Excellent A- Excellent	A- Excellent A- Excellent	A2- Excellent A2- Excellent
Formic Acid Freon 113	D- Severe Effect	A- Excellent	A- Excellent A- Excellent	A- Excellent B- Good	A2- Excellent A- Excellent
Freon 113	A1- Excellent	A- Excellent A- Excellent	A- Excellent A- Excellent	A- Excellent	A- Excellent B- Good
Freon 22	B- Good	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Freon TF	D- Severe Effect	N/A	D- Severe Effect	B- Good	A- Excellent
Freon® 11	D- Severe Effect	N/A	A- Excellent	A- Excellent	D- Severe Effect
Fruit Juice	A- Excellent	A- Excellent	N/A	A- Excellent	D- Severe Effect
Fuel Oils	A1- Excellent	N/A	A- Excellent	B- Good	A- Excellent
Furan Resin	N/A	N/A	A- Excellent	D- Severe Effect	D- Severe Effect
Furfural	B- Good	N/A	A- Excellent	B2- Good	A- Excellent
Gallic Acid	A- Excellent	N/A	A- Excellent	A1- Excellent	N/A
Gasoline (high-aromatic)	A- Excellent	A- Excellent	A- Excellent	A- Excellent	B- Good
Gasoline, leaded, ref.	A2- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Gasoline, unleaded	A2- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Gelatin	A1- Excellent	A- Excellent	N/A	A- Excellent	B- Good
Glucose	A- Excellent	N/A	B- Good	A- Excellent	A- Excellent
Glue, P.V.A.	A1- Excellent	N/A	N/A	N/A	A- Excellent
Glycerin	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Glycolic Acid	N/A N/A	N/A	A- Excellent	B- Good A- Excellent	A- Excellent
Gold Monocyanide Grape Juice	A- Excellent	N/A N/A	N/A N/A	A- Excellent	A- Excellent A- Excellent
Grease Greate	N/A	N/A	N/A	A- Excellent	D- Severe Effect
Heptane	A- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Hexane	B- Good	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Honey	A- Excellent	N/A	N/A	A- Excellent	A- Excellent
Hydraulic Oil (Petro)	A1- Excellent	A- Excellent	D- Severe Effect	A- Excellent	B- Good
Hydraulic Oil (Synthetic)	A1- Excellent	A- Excellent	N/A	A- Excellent	N/A
Hydrazine	N/A	A- Excellent	A2- Excellent	A- Excellent	B- Good
Hydrobromic Acid 100%	D- Severe Effect	D- Severe Effect	A1- Excellent	A- Excellent	D- Severe Effect
Hydrobromic Acid 20%	D- Severe Effect	N/A	A1- Excellent	A- Excellent	C- Fair
Hydrochloric Acid 100%	D- Severe Effect	A- Excellent	D- Severe Effect	A- Excellent	C- Fair
Hydrochloric Acid 20%	D- Severe Effect	A- Excellent	D- Severe Effect	A- Excellent	C- Fair
Hydrochloric Acid 37%	D- Severe Effect	A- Excellent	D- Severe Effect	A- Excellent	C- Fair
Hydrochloric Acid, Dry Gas	A1- Excellent	N/A	A- Excellent	A- Excellent	N/A
Hydrocyanic Acid	B- Good	A- Excellent	B- Good	A- Excellent	B- Good
Hydrocyanic Acid (Gas 10%) Hydrofluoric Acid 100%	N/A D- Severe Effect	N/A D- Severe Effect	N/A D- Severe Effect	N/A A- Excellent	C- Fair D- Severe Effect
Hydrofluoric Acid 100% Hydrofluoric Acid 20%	C1- Fair	D- Severe Effect	C1- Fair	A- Excellent A- Excellent	D- Severe Effect
Hydrofluoric Acid 50%	D- Severe Effect	D- Severe Effect	D- Severe Effect	A- Excellent	D- Severe Effect
Hydrofluoric Acid 75%	D- Severe Effect	D- Severe Effect	D- Severe Effect	A- Excellent	D- Severe Effect
Hydrofluosilicic Acid 100%	D- Severe Effect	N/A	A1- Excellent	A1- Excellent	A- Excellent
Hydrofluosilicic Acid 20%	D- Severe Effect	N/A	A- Excellent	A- Excellent	B- Good
Hydrogen Gas	A2- Excellent	N/A	A- Excellent	A- Excellent	N/A
Hydrogen Peroxide 10%	C1- Fair	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect
Hydrogen Peroxide 100%	D- Severe Effect	N/A	C- Fair	A1- Excellent	D- Severe Effect
Hydrogen Peroxide 30%	D- Severe Effect	N/A	A1- Excellent	A- Excellent	D- Severe Effect
Hydrogen Peroxide 50%	D- Severe Effect	N/A	N/A	A1- Excellent	D- Severe Effect
Hydrogen Sulfide (aqua)	C1- Fair	N/A	A- Excellent	A- Excellent	C- Fair
Hydrogen Sulfide (dry)	C1- Fair	A- Excellent	A- Excellent	A- Excellent	N/A
Hydroquinone	D- Severe Effect	N/A	N/A	N/A	A- Excellent
Hydroxyacetic Acid 70%	N/A	N/A	N/A	A- Excellent	A- Excellent
Ink	C- Fair	N/A	N/A	A- Excellent	B- Good
lodine	A- Excellent C- Fair	C- Fair N/A	D- Severe Effect N/A	A2- Excellent A- Excellent	D- Severe Effect D- Severe Effect
lodine (in alcohol)	N/A	N/A N/A	N/A N/A	A- Excellent C- Fair	D- Severe Επεct N/A
Isooctane	A1- Excellent	A- Excellent	A- Excellent	A2- Excellent	N/A N/A
Isopropyl Acetate	B1- Good	N/A	N/A	D- Severe Effect	D- Severe Effect
Isopropyl Ether	A1- Excellent	N/A N/A	N/A N/A	D- Severe Effect	D- Severe Effect
Isotane	D- Severe Effect	N/A	N/A	A- Excellent	N/A
Jet Fuel (JP3, JP4, JP5)	C- Fair	N/A	A- Excellent	B- Good	A1- Excellent
Kerosene	A- Excellent	A- Excellent	A- Excellent	A- Excellent	A2- Excellent

Observiced	25	OD	10	0)/	DO.
Chemical	CF	CP	LC	SV	DG
Lacquer Thinners	A1- Excellent	N/A	N/A	N/A	D- Severe Effect
Lacquers	A1- Excellent	N/A	N/A	D- Severe Effect	D- Severe Effect
Lactic Acid	B- Good	A- Excellent	A- Excellent	B1- Good	B- Good
Lard	A1- Excellent	N/A	N/A	A- Excellent	A- Excellent
Latex	A1- Excellent	N/A	N/A	A- Excellent	B- Good
Lead Acetate	A- Excellent	A- Excellent	A- Excellent	A- Excellent	B- Good
Lead Nitrate	N/A	N/A	A- Excellent	A2- Excellent	N/A
Lead Sulfamate	B1- Good	N/A	N/A	A- Excellent	
*** ** * * * * * * * * * * * * * * * * *		· ·			A- Excellent
Ligroin	D- Severe Effect	N/A	N/A	A- Excellent	B- Good
Lime	A1- Excellent	A- Excellent	N/A	A- Excellent	B- Good
Linoleic Acid	N/A	N/A	N/A	A2- Excellent	B- Good
Lithium Chloride	N/A	N/A	A- Excellent	A2- Excellent	A- Excellent
Lithium Hydroxide	N/A	N/A	N/A	N/A	N/A
Lubricants	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Lye: Ca(OH)2 Calcium Hydroxide	A2- Excellent	N/A	A- Excellent	A2- Excellent	D- Severe Effect
Lye: KOH Potassium Hydroxide	C- Fair	N/A	A- Excellent	A- Excellent	A- Excellent
Lye: NaOH Sodium Hydroxide	A- Excellent	N/A	A- Excellent	D- Severe Effect	C- Fair
Magnesium Bisulfate	A1- Excellent	N/A	N/A	N/A	N/A
Magnesium Carbonate	N/A	N/A	N/A	A- Excellent	A- Excellent
	A1- Excellent	A- Excellent	A1- Excellent	A- Excellent	B1- Good
Magnesium Chloride					
Magnesium Hydroxide	B1- Good	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Magnesium Nitrate	A1- Excellent	N/A	A- Excellent	A- Excellent	A- Excellent
Magnesium Oxide	N/A	N/A	N/A	N/A	A- Excellent
Magnesium Sulfate (Epsom Salts)	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	B- Good
Maleic Acid	A- Excellent	A- Excellent	B- Good	A- Excellent	A- Excellent
	N/A	N/A	N/A	A- Excellent	D- Severe Effect
Maleic Anhydride					
Malic Acid	A- Excellent	N/A	N/A	A- Excellent	A- Excellent
Manganese Sulfate	A2- Excellent	N/A	A2- Excellent	A2- Excellent	A1- Excellent
Mash	A- Excellent	N/A	N/A	N/A	A- Excellent
Mayonnaise	A- Excellent	N/A	N/A	A- Excellent	A- Excellent
Melamine	A- Excellent	N/A	N/A	N/A	A- Excellent
Mercuric Chloride (dilute)	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	B- Good
Mercuric Cyanide	A2- Excellent	N/A	A- Excellent	A- Excellent	N/A
Mercurous Nitrate	N/A	N/A	N/A	A- Excellent	N/A
Mercury	A- Excellent	A- Excellent	N/A	A- Excellent	A- Excellent
Methane	A- Excellent				
Methanol (Methyl Alcohol)	B1- Good	N/A	A- Excellent	A- Excellent	A- Excellent
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Methyl Acetate	A2- Excellent	N/A	N/A	B1- Good	B- Good
Methyl Acetone	A- Excellent	N/A	N/A	D- Severe Effect	D- Severe Effect
Methyl Acrylate	N/A	N/A	A- Excellent	B1- Good	B- Good
Methyl Alcohol 10%	B1- Good	N/A	A- Excellent	A- Excellent	A- Excellent
Methyl Bromide	B1- Good	N/A	N/A	A- Excellent	D- Severe Effect
Methyl Butyl Ketone	D- Severe Effect	N/A	N/A	D- Severe Effect	D- Severe Effect
Methyl Cellosolve	C- Fair	N/A	N/A	A- Excellent	D- Severe Effect
Methyl Chloride	B1- Good	N/A	B- Good	A- Excellent	B- Good
Methyl Dichloride	C- Fair	N/A	N/A	D- Severe Effect	D- Severe Effect
Methyl Ethyl Ketone	A1- Excellent	A- Excellent	A- Excellent	D- Severe Effect	C- Fair
Methyl Ethyl Ketone Peroxide	N/A	N/A	N/A	N/A	N/A
Methyl Isobutyl Ketone	B2- Good	N/A	A- Excellent	D- Severe Effect	N/A
		· ·			· ·
Methyl Isopropyl Ketone	A- Excellent	N/A	N/A	N/A	N/A
Methyl Methacrylate	N/A	N/A	A- Excellent	B1- Good	D- Severe Effect
Methylamine	N/A	N/A	N/A	C- Fair	D- Severe Effect
Methylene Chloride	C1- Fair	N/A	A- Excellent	B1- Good	B- Good
Milk	A- Excellent	A- Excellent	N/A	A2- Excellent	A- Excellent
Mineral Spirits		N/A		N/A	
•	A- Excellent		A- Excellent		A- Excellent
Molasses	A1- Excellent	A- Excellent	N/A	B1- Good	A- Excellent
Monochloroacetic acid	D- Severe Effect	N/A	N/A	B1- Good	D- Severe Effect
Monoethanolamine	A- Excellent	N/A	A- Excellent	C- Fair	D- Severe Effect
Morpholine	A2- Excellent	N/A	C- Fair	B1- Good	N/A
Motor oil	A2- Excellent	A- Excellent	A- Excellent	B- Good	B- Good
Mustard	A- Excellent	N/A	N/A	A- Excellent	C- Fair
Naphtha	A- Excellent	A- Excellent	A- Excellent	A- Excellent	A1- Excellent
Naphthalene	A1- Excellent	A- Excellent	A- Excellent	A2- Excellent	A1- Excellent
Natural Gas	N/A	A- Excellent	N/A	N/A	B- Good
Nickel Chloride	C1- Fair	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Nickel Nitrate	A1- Excellent	A- Excellent	N/A	A2- Excellent	N/A
Nickel Sulfate	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Nitrating Acid (<15% HNO3)	N/A	N/A	C- Fair	N/A	N/A
Nitrating Acid (>15% H2SO4)	N/A	N/A	D- Severe Effect	N/A	D- Severe Effect
Nitrating Acid (Š1% Acid)	N/A	N/A	C- Fair	N/A	N/A
Nitrating Acid (Š15% H2SO4)	N/A	N/A	C- Fair	N/A	N/A
Nitric Acid (20%)	D- Severe Effect	B- Good	C- Fair	A- Excellent	D- Severe Effect
Nitric Acid (50%)	D- Severe Effect	D- Severe Effect	C- Fair	A1- Excellent	D- Severe Effect
Nitric Acid (5-10%)	D- Severe Effect	A- Excellent	B1- Good	A1- Excellent	D- Severe Effect
Nitric Acid (Concentrated)	D- Severe Effect	D- Severe Effect	C- Fair	A1- Excellent	D- Severe Effect
Nitrobenzene	B1- Good	A- Excellent	A2- Excellent	A1- Excellent	C- Fair
Nitrogen Fertilizer	N/A	N/A	N/A	N/A	N/A
Nitromethane	B1- Good	N/A	A2- Excellent	A2- Excellent	A- Excellent
Nitrous Acid	N/A	A- Excellent	N/A	B- Good	N/A
Nitrous Oxide	C- Fair	A- Excellent	N/A	D- Severe Effect	N/A
Oils:Aniline	A- Excellent	N/A	N/A	A- Excellent	D- Severe Effect
Oils:Anise	N/A	N/A	N/A	N/A	D- Severe Effect
Oils:Bay	N/A	N/A	N/A	A- Excellent	D- Severe Effect
Oils:Bone	N/A	N/A	N/A	A- Excellent	D- Severe Effect
Oils:Castor	A- Excellent	N/A	N/A	A- Excellent	A- Excellent
Oils:Cinnamon	N/A	N/A	N/A	N/A	D- Severe Effect
Oils:Citric	A- Excellent	N/A	N/A	A- Excellent	A- Excellent
Oils:Clove	N/A	N/A	N/A	N/A	N/A
Oils:Coconut	N/A	N/A	N/A	A- Excellent	A- Excellent
Oils:Cod Liver	N/A	N/A	N/A	A- Excellent	B- Good

Chemical		CF	СР	LC	sv	DG
Oils:Corn		A- Excellent	N/A	N/A	A- Excellent	A- Excellent
Oils:Cottonseed Oils:Creosote		B- Good D- Severe Effect	N/A N/A	A- Excellent N/A	A- Excellent N/A	A- Excellent D- Severe Effect
Oils:Diesel Fuel (20	30 40 50)	A- Excellent	A- Excellent	A- Excellent	A- Excellent	D- Severe Effect
Oils:Fuel (1, 2, 3, 5/		A- Excellent	A- Excellent	A- Excellent	B- Good	D- Severe Effect
Oils:Ginger	1, 52, 6)	N/A	N/A	N/A	A- Excellent	A- Excellent
Oils:Hydraulic Oil (F	Petro)	A1- Excellent	N/A	D- Severe Effect	A- Excellent	B- Good
Oils:Hydraulic Oil (S	Synthetic)	A1- Excellent	N/A	N/A	A- Excellent	N/A
Oils:Lemon		N/A	N/A	N/A	A- Excellent	D- Severe Effect
Oils:Linseed		A1- Excellent	A- Excellent	B- Good	A- Excellent	A- Excellent
Oils:Mineral		A- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Oils:Olive		A1- Excellent	A- Excellent	N/A	N/A	A- Excellent
Oils:Orange Oils:Palm		N/A N/A	N/A A- Excellent	N/A	A- Excellent A- Excellent	D- Severe Effect A- Excellent
Oils:Paim Oils:Peanut		N/A N/A	A- Excellent A- Excellent	N/A N/A	A- Excellent A- Excellent	A- Excellent A- Excellent
Oils:Peppermint		N/A	N/A	N/A	A- Excellent	D- Severe Effect
Oils:Pine		A- Excellent	N/A	N/A	A- Excellent	A- Excellent
Oils:Rapeseed		N/A	N/A	N/A	A- Excellent	A- Excellent
Oils:Rosin		A1- Excellent	N/A	N/A	A- Excellent	N/A
Oils:Sesame Seed		N/A	A- Excellent	N/A	A- Excellent	D- Severe Effect
Oils:Silicone		A1- Excellent	N/A	A1- Excellent	A- Excellent	A- Excellent
Oils:Soybean		A- Excellent	A- Excellent	N/A	A- Excellent	A- Excellent
Oils:Sperm (whale)		N/A	N/A	N/A	A- Excellent	D- Severe Effect
Oils:Tanning		N/A	N/A	N/A	A- Excellent	D- Severe Effect
Oils:Transformer		A1- Excellent	N/A	N/A	A- Excellent	A- Excellent
Oils:Turbine		A- Excellent	N/A	N/A	A- Excellent	A- Excellent
Oleic Acid Oleum 100%		A- Excellent	A- Excellent D- Severe Effect	A- Excellent	A- Excellent	A- Excellent D- Severe Effect
Oleum 100% Oleum 25%		D- Severe Effect D- Severe Effect	D- Severe Effect D- Severe Effect	A1- Excellent A1- Excellent	D- Severe Effect C1- Fair	D- Severe Effect D- Severe Effect
Oxalic Acid (cold)		B2- Good	A- Excellent	A - Excellent	B- Good	B- Good
Ozone Ozone		D- Severe Effect	A- Excellent	max 100 pppm	A- Excellent	C- Fair
Palmitic Acid		A- Excellent	N/A	N/A	A2- Excellent	A- Excellent
Paraffin		A1- Excellent	A- Excellent	N/A	A- Excellent	A- Excellent
Pentane		A1- Excellent	A- Excellent	N/A	A- Excellent	B- Good
Perchloric Acid		D- Severe Effect	A- Excellent	N/A	A- Excellent	C- Fair
Perchloroethylene		C1- Fair	N/A	A- Excellent	A- Excellent	B- Good
Petrolatum		D- Severe Effect	N/A	N/A	A- Excellent	B- Good
Petroleum		A1- Excellent	N/A	N/A	A- Excellent	B- Good
Phenol (10%)	:-10	D- Severe Effect D- Severe Effect	N/A N/A	A- Excellent A- Excellent	A- Excellent	B- Good
Phenol (Carbolic Acid (>4	*	B1- Good	A- Excellent	A- Excellent A- Excellent	A1- Excellent B- Good	D- Severe Effect D- Severe Effect
Phosphoric Acid (cr		B1- Good	N/A	A- Excellent	A- Excellent	D- Severe Effect
Phosphoric Acid (m		N/A	N/A	N/A	D- Severe Effect	D- Severe Effect
Phosphoric Acid (<4	,	B1- Good	A- Excellent	A- Excellent	B- Good	D- Severe Effect
Phosphoric Acid An		N/A	N/A	D- Severe Effect	D- Severe Effect	D- Severe Effect
Phosphorus		N/A	N/A	N/A	A1- Excellent	B- Good
Phosphorus Trichlor		N/A	A- Excellent	A- Excellent	A2- Excellent	D- Severe Effect
Photographic Devel	•	N/A	N/A	N/A	N/A	D- Severe Effect
Photographic Soluti	ions	A1- Excellent	N/A	A2- Excellent	B2- Good	D- Severe Effect
Phthalic Acid		B1- Good	A- Excellent	N/A	A2- Excellent	C- Fair
Phthalic Anhydride		N/A C1- Fair	N/A A- Excellent	N/A	A- Excellent A1- Excellent	C- Fair A- Excellent
Picric Acid Plating Solutions,	Antimony Plating	D- Severe Effect	N/A	A- Excellent N/A	A- Excellent	A- Excellent A- Excellent
Plating Solutions, 7	, ,	A- Excellent	N/A	N/A	A- Excellent	A- Excellent
	Brass Plating: High-Speed Brass Bath	A- Excellent	N/A	N/A	B- Good	A- Excellent
	Brass Plating: Regular Brass Bath	A- Excellent	N/A	N/A	B- Good	A- Excellent
	Bronze Plating: Cu-Cd Bronze Bath	A- Excellent	N/A	N/A	A- Excellent	A- Excellent
	Bronze Plating: Cu-Sn Bronze Bath	A- Excellent	N/A	N/A	A- Excellent	B- Good
Plating Solutions, I	Bronze Plating: Cu-Zn Bronze Bath	A- Excellent	N/A	N/A	A- Excellent	A- Excellent
	Cadmium Plating: Cyanide Bath 90°F	A- Excellent	N/A	N/A	A- Excellent	A- Excellent
	Cadmium Plating: Fluoborate Bath	D- Severe Effect	N/A	N/A	A- Excellent	C- Fair
	Chromium Plating: Barrel Chrome	D- Severe Effect	N/A	N/A	C- Fair	D- Severe Effect
	Chromium Plating: Black Chrome	D- Severe Effect	N/A	N/A	C- Fair	D- Severe Effect
	Chromium Plating: Chromic-Sulfuric Chromium Plating: Fluoride Bath	D- Severe Effect D- Severe Effect	N/A N/A	N/A N/A	C- Fair C- Fair	D- Severe Effect D- Severe Effect
	Chromium Plating: Fluoride Bath Chromium Plating: Fluosilicate Bath	D- Severe Effect	N/A N/A	N/A N/A	C- Fair	D- Severe Effect
	Copper Plating	D- Severe Effect	N/A	N/A	A- Excellent	C- Fair
	Copper Plating	D- Severe Effect	N/A	N/A	A- Excellent	A- Excellent
	Copper Plating	A- Excellent	N/A	N/A	B- Good	A- Excellent
	Copper Plating	A- Excellent	N/A	N/A	A- Excellent	B- Good
Plating Solutions,	Copper Plating	A- Excellent	N/A	N/A	A- Excellent	B- Good
	Copper Plating	A- Excellent	N/A	N/A	A- Excellent	D- Severe Effect
	Copper Plating	A- Excellent	N/A	N/A	A- Excellent	A- Excellent
	Gold Plating: Acid	A- Excellent	N/A	N/A	N/A	N/A
	Gold Plating: Cyanide 150°F	A- Excellent	N/A	N/A	N/A	N/A
	Gold Plating: Neutral 75°F	A- Excellent	N/A N/A	N/A N/A	N/A N/A	N/A N/A
	Indium Sulfamate Iron Plating: Ferrous Am Sulfate Bath	D- Severe Effect D- Severe Effect	N/A N/A	N/A N/A	N/A N/A	N/A N/A
	Iron Plating: Ferrous Am Suitate Bath	D- Severe Effect	N/A N/A	N/A N/A	N/A N/A	N/A N/A
	Iron Plating: Ferrous Chloride Bath	D- Severe Effect	N/A N/A	N/A N/A	N/A N/A	N/A N/A
	Iron Plating: Fluoborate Bath 145°F	D- Severe Effect	N/A	N/A	N/A	N/A
	Iron Plating: Sulfamate 140°F	D- Severe Effect	N/A	N/A	N/A	N/A
	Iron Plating: Sulfate-Chloride Bath	D- Severe Effect	N/A	N/A	N/A	N/A
_	Lead Fluoborate	D- Severe Effect	N/A	N/A	N/A	N/A
Plating Solutions, I	Nickel Plating: Electroless 200°F	D- Severe Effect	N/A	N/A	N/A	N/A
Plating Solutions	Nickel Plating: Fluoborate 100-170°F	D- Severe Effect	N/A	N/A	N/A	N/A
	Nickel Plating: High-Chloride 130-	D- Severe Effect	N/A	N/A	N/A	N/A
Plating Solutions, I						
Plating Solutions, I Plating Solutions, I	Nickel Plating: Sulfamate 100-140°F	A- Excellent	N/A	N/A	N/A	N/A
Plating Solutions, I Plating Solutions, I	Nickel Plating: Sulfamate 100-140°F Nickel: Watts	A- Excellent A- Excellent D- Severe Effect	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A

Chemical	CF	СР	LC	SV	DG
Plating Solutions, Silver 80-120°F	A- Excellent	N/A	N/A	N/A	N/A
Plating Solutions, Tin-Fluoborate Plating Solutions, Tin-Lead 100°F	D- Severe Effect D- Severe Effect	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Plating Solutions, Zinc Plating: Acid	D- Severe Effect	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Plating Solutions, Zinc Plating: Acid	D- Severe Effect	N/A	N/A	N/A	N/A
Plating Solutions, Zinc Plating: Acid	D- Severe Effect	N/A	N/A	N/A	N/A
Plating Solutions, Zinc Plating: Alkaline Cyanide Bath	A- Excellent	N/A	N/A	N/A	N/A
Potash (Potassium Carbonate)	A- Excellent	N/A	N/A	A- Excellent	B- Good
Potassium Bicarbonate	A1- Excellent	A- Excellent	A- Excellent	B- Good	C- Fair
Potassium Bromide	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Potassium Chlorate	C1- Fair	A- Excellent	A- Excellent	A- Excellent	B- Good
Potassium Chloride Potassium Chromate	A1- Excellent B- Good	A- Excellent A- Excellent	A- Excellent max 0.1%	A- Excellent B- Good	A- Excellent C- Fair
Potassium Cyanide Solutions	A1- Excellent	N/A	A- Excellent	A- Excellent	C- Fair
Potassium Dichromate	B1- Good	N/A	A- Excellent	A- Excellent	A- Excellent
Potassium Ferricyanide	B1- Good	A- Excellent	N/A	A2- Excellent	B1- Good
Potassium Ferrocyanide	B1- Good	A- Excellent	N/A	A- Excellent	N/A
Potassium Hydroxide (Caustic Potash)	C1- Fair	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Potassium Hypochlorite	B1- Good	N/A	A- Excellent	A1- Excellent	N/A
Potassium Iodide	A1- Excellent	N/A	A2- Excellent	A2- Excellent	N/A
Potassium Nitrate Potassium Oxalate	B1- Good N/A	A- Excellent N/A	A- Excellent N/A	A- Excellent N/A	A- Excellent N/A
Potassium Oxalate Potassium Permanganate	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Potassium Sulfate	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	B- Good
Potassium Sulfide	A- Excellent	A- Excellent	A- Excellent	A- Excellent	N/A
Propane (liquefied)	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Propylene	N/A	N/A	A- Excellent	N/A	N/A
Propylene Glycol	A- Excellent	N/A	A- Excellent	N/A	B- Good
Pyridine	C1- Fair	A- Excellent	A- Excellent	D- Severe Effect	B- Good
Pyrogallic Acid	N/A	N/A	N/A	A- Excellent	D- Severe Effect
Resorcinal	D- Severe Effect	N/A	N/A	N/A	N/A
Rosins	A1- Excellent	N/A	N/A	N/A	B- Good
Rum Puet Inhibitore	A- Excellent N/A	N/A N/A	N/A N/A	N/A N/A	A- Excellent
Rust Inhibitors Salad Dressings	N/A A- Excellent	N/A N/A	N/A N/A	N/A N/A	A- Excellent A- Excellent
Salicylic Acid	A1- Excellent	A- Excellent	N/A	A- Excellent	D- Severe Effect
Salt Brine (NaCl saturated)	A- Excellent	N/A	A- Excellent	A- Excellent	N/A
Sea Water	A2- Excellent	N/A	A- Excellent	A- Excellent	A- Excellent
Shellac (Bleached)	A1- Excellent	N/A	N/A	N/A	A- Excellent
Shellac (Orange)	A1- Excellent	N/A	N/A	N/A	A- Excellent
Silicone	A1- Excellent	N/A	A1- Excellent	A- Excellent	A- Excellent
Silver Bromide	N/A	N/A	N/A	N/A	C- Fair
Silver Nitrate	A1- Excellent A1- Excellent	A- Excellent N/A	A- Excellent A- Excellent	A- Excellent A1- Excellent	A- Excellent A- Excellent
Soap Solutions Soda Ash (see Sodium Carbonate)	B- Good	N/A	A- Excellent	A- Excellent	A- Excellent
Sodium Acetate	B1- Good	A- Excellent	A- Excellent	A- Excellent	B- Good
Sodium Aluminate	A1- Excellent	N/A	A- Excellent	N/A	B- Good
Sodium Benzoate	B1- Good	N/A	N/A	A2- Excellent	N/A
Sodium Bicarbonate	A- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Sodium Bisulfate	A1- Excellent	N/A	A- Excellent	A- Excellent	B- Good
Sodium Bisulfite	C1- Fair	N/A	A- Excellent	A- Excellent	C- Fair
Sodium Borate (Borax)	A1- Excellent	N/A	A- Excellent	A- Excellent	N/A
Sodium Bromide Sodium Carbonate	B1- Good B1- Good	N/A A- Excellent	N/A A- Excellent	A2- Excellent A- Excellent	A- Excellent A1- Excellent
Sodium Carbonate Sodium Chlorate	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Sodium Chloride	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	A1- Excellent
Sodium Chromate	C- Fair	N/A	A- Excellent	A- Excellent	D- Severe Effect
Sodium Cyanide	A1- Excellent	N/A	A- Excellent	A- Excellent	A- Excellent
Sodium Ferrocyanide	N/A	N/A	N/A	A- Excellent	A- Excellent
Sodium Fluoride	B- Good	N/A	N/A	A- Excellent	N/A
Sodium Hydrosulfite	A- Excellent	N/A	A- Excellent	N/A	N/A
Sodium Hydroxide (20%)	A- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Sodium Hydroxide (50%)	A- Excellent	A- Excellent	A- Excellent A- Excellent	A- Excellent A- Excellent	A- Excellent D- Severe Effect
Sodium Hydroxide (80%) Sodium Hypochlorite (<20%)	C- Fair D- Severe Effect	N/A A- Excellent	A- Excellent A- Excellent	A- Excellent A- Excellent	D- Severe Effect D- Severe Effect
Sodium Hypochlorite (<20%) Sodium Hypochlorite (100%)	D- Severe Effect	N/A	A- Excellent A- Excellent	A- Excellent A- Excellent	D- Severe Effect
Sodium Hypochionie (100%)	N/A	N/A	N/A	N/A	N/A
Sodium Metaphosphate	A1- Excellent	N/A	N/A	A- Excellent	B- Good
Sodium Metasilicate	N/A	N/A	N/A	N/A	D- Severe Effect
Sodium Nitrate	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Sodium Perborate	B1- Good	N/A	N/A	N/A	B- Good
Sodium Peroxide	A1- Excellent	A- Excellent	N/A	A- Excellent	D- Severe Effect
Sodium Polyphosphate	A1- Excellent	N/A A Excellent	N/A A Excellent	A- Excellent	B- Good
Sodium Silicate Sodium Sulfate	A1- Excellent A- Excellent	A- Excellent A- Excellent	A- Excellent A- Excellent	A- Excellent A- Excellent	C- Fair B- Good
Sodium Sulfide	A- Excellent A1- Excellent	A- Excellent	A- Excellent A- Excellent	A- Excellent A- Excellent	B- Good B- Good
Sodium Sulfite	D- Severe Effect	A- Excellent	N/A	A- Excellent	N/A
Sodium Tetraborate	A- Excellent	N/A	N/A	N/A	B- Good
Sodium Thiosulfate (hypo)	B- Good	N/A	A- Excellent	A- Excellent	C1- Fair
Sorghum	A- Excellent	N/A	N/A	N/A	A- Excellent
Soy Sauce	A- Excellent	N/A	N/A	N/A	A- Excellent
Stannic Chloride	B1- Good	A- Excellent	A- Excellent	A- Excellent	C- Fair
Stannic Fluoborate	N/A	N/A	N/A	N/A	C- Fair
Stannous Chloride	C1- Fair	A- Excellent	A1- Excellent	A- Excellent	N/A
Starch Stearic Acid	A1- Excellent A2- Excellent	A- Excellent N/A	N/A N/A	N/A A- Excellent	A- Excellent A- Excellent
Stoddard Solvent	A2- Excellent A- Excellent	N/A N/A	A- Excellent	A- Excellent A- Excellent	A- Excellent A- Excellent
Styrene	A1- Excellent	A- Excellent	N/A	N/A	A- Excellent
Sugar (Liquids)	A1- Excellent	N/A	N/A	N/A	A- Excellent

Chemical	CF	CP	LC	SV	DG
Sulfur Chloride	A1- Excellent	A- Excellent	N/A	A1- Excellent	D- Severe Effect
Sulfur Dioxide	C1- Fair	A- Excellent	A- Excellent	A- Excellent	B- Good
Sulfur Dioxide (dry)	B1- Good	N/A	A- Excellent	A- Excellent	B- Good
Sulfur Hexafluoride	B- Good	A- Excellent	N/A	N/A	N/A
Sulfur Trioxide	D- Severe Effect	A- Excellent	N/A	N/A	N/A
Sulfur Trioxide (dry)	A1- Excellent	N/A	N/A	C1- Fair	D- Severe Effect
Sulfuric Acid (<10%)	C1- Fair	B-Good	A- Excellent	A- Excellent	D- Severe Effect
Sulfuric Acid (10-75%)	D- Severe Effect	C- Fair	A- Excellent	A- Excellent	D- Severe Effect
Sulfuric Acid (75-100%)	D- Severe Effect	D- Severe Effect	A1- Excellent	A- Excellent	N/A
Sulfuric Acid (cold concentrated)	D- Severe Effect	D- Severe Effect	A1- Excellent	A- Excellent	N/A
Sulfuric Acid (hot concentrated)	D- Severe Effect	D- Severe Effect	D- Severe Effect	C- Fair	N/A
Sulfurous Acid	D- Severe Effect	A- Excellent	A- Excellent	A- Excellent	C- Fair
Sulfuryl Chloride	N/A	N/A	N/A	N/A	A- Excellent
Tallow	A1- Excellent	A- Excellent	N/A	N/A	A- Excellent
Tannic Acid	C1- Fair	A- Excellent	A- Excellent	B- Good	B- Good
Tanning Liquors	A1- Excellent	N/A	N/A	N/A	B- Good
Tartaric Acid	B2- Good	A- Excellent	A- Excellent	B- Good	B- Good
Tetrachloroethane	C1- Fair	N/A	N/A	A- Excellent	A- Excellent
Tetrachloroethylene	A1- Excellent	N/A	N/A	N/A	A- Excellent
Tetrahydrofuran	A- Excellent	A- Excellent	A- Excellent	B1- Good	A- Excellent
Tin Salts	N/A	N/A	N/A	A- Excellent	N/A
Toluene (Toluol)	A1- Excellent	A- Excellent	A- Excellent	A1- Excellent	C1- Fair
Tomato Juice	A1- Excellent	N/A	A- Excellent	A- Excellent	B- Good
Trichloroacetic Acid	C- Fair	N/A N/A	A- Excellent	B- Good	N/A
Trichloroethane	C1- Fair	N/A N/A	N/A	A- Excellent	A- Excellent
	C1- Fair	· ·		B- Good	
Trichloroethylene	N/A	A- Excellent N/A	A1- Excellent N/A	N/A	D- Severe Effect A- Excellent
Trichloropropane		· ·		· ·	
Tricresylphosphate	A2- Excellent A1- Excellent	N/A N/A	N/A	D- Severe Effect	C- Fair
Triethylamine			A2- Excellent	A2- Excellent	D- Severe Effect
Trisodium Phosphate	A- Excellent	N/A	A- Excellent	A- Excellent	A- Excellent
Turpentine	B- Good	A- Excellent	A- Excellent	A- Excellent	A2- Excellent
Urea	A- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Uric Acid	A- Excellent	N/A	N/A	N/A	N/A
Urine	B- Good	N/A	N/A	A- Excellent	A- Excellent
Varnish	A- Excellent	A- Excellent	N/A	N/A	A- Excellent
Vegetable Juice	A- Excellent	N/A	N/A	N/A	A- Excellent
Vinegar	A- Excellent	A- Excellent	A- Excellent	B- Good	B- Good
Vinyl Acetate	N/A	N/A	N/A	A2- Excellent	N/A
Vinyl Chloride	A1- Excellent	N/A	N/A	B1- Good	N/A
Water, Acid, Mine	A- Excellent	A- Excellent	A- Excellent	A- Excellent	A1- Excellent
Water, Deionized	A1- Excellent	A- Excellent	A- Excellent	A2- Excellent	N/A
Water, Distilled	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	B- Good
Water, Fresh	A1- Excellent	A- Excellent	A- Excellent	A- Excellent	A2- Excellent
Water, Salt	A2- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Weed Killers	A- Excellent	N/A	N/A	N/A	A- Excellent
Whey	N/A	N/A	N/A	N/A	A- Excellent
Whiskey & Wines	A1- Excellent	A- Excellent	N/A	A- Excellent	A- Excellent
White Liquor (Pulp Mill)	A1- Excellent	A- Excellent	N/A	A1- Excellent	D- Severe Effect
White Water (Paper Mill)	A- Excellent	N/A	N/A	N/A	B- Good
Xylene	A2- Excellent	A- Excellent	A- Excellent	A- Excellent	A- Excellent
Zinc Chloride	A- Excellent	A- Excellent	A- Excellent	A- Excellent	C- Fair
Zinc Hydrosulfite	A- Excellent	N/A	A- Excellent	N/A	C- Fair
Zinc Sulfate	A- Excellent	A- Excellent	A- Excellent	A- Excellent	C- Fair
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Source: Cole-Parmer chemical resistance database

WARNING
The information in this chart has been supplied to Ideal-tek by other reputable sources and is to be used ONLY as a guide in selecting equipment for appropriate chemical compatibility. Before permanent installation, test the equipment with the chemicals and under the specific conditions of your application.
Ratings of chemical behavior listed in this chart apply at a 48-hr exposure period.
Ideal-tek has no knowledge of possible effects beyond this period. Ideal-tek does not warrant (neither express nor implied) that the information in this chart is accurate or complete or that any material is suitable for

Wariations in chemical behavior during handling due to factors such as temperature, pressure, and concentrations can cause equipment to fail, even though it passed an initial test. SERIOUS INJURY MAY RESULT
Use suitable guards and/or personal protections when handling chemicals.