

Chemical Inventory				
<u>Chemical Name</u>	<u>Company</u>	<u>Catalog or Part #</u>	<u>Chemicals In Labs</u>	<u>MSDS in rm 244</u>
1,1,2-Trichloroethane	ACROS	13943-0010	X	X
1,2-Dichloroethane	Alpha Aesar	P-135	X	X
100 FEOL Cleaner	J.T. Baker		X	X
100/200 Copper Etchant	Transene Company		X	X
1020 AC Chromium Etchant	Transene Company		X	X
1165 Microposit Remover	Shipley	38680	X	X
120 HNR Negative Resist	Olin Microelectric Materials	388	X	X
121 Roto Etch	Transene Company		X	X
12590P Polyimide Coating	Du Pont Electronics		X	X
12613P Polyimide Coating	Du Pont Electronics		X	X
12725P Polyimide Coating	Du Pont Electronics		X	X
1400 Microposit Series Photo Resist	Shipley		X	X
1400-27 Microposit Photoresist	Shipley	41280	X	X
1500 Thinner AZ	Hoest		X	X
1813 Microposit Photo Resist	Shipley		X	X
222MS Threadlocker Low Strength	Loctite Corporation		X	X
2400 PEPR Photo Resist	Shipley	10560	X	X
26-MF-CD Microposit Developer	Shipley		X	X
2-Butanone	Alpha Aesar		X	X
2-Propanol	Fisher Scientific	A416-500	X	X
2-Propanol	J.T. Baker	9084-03	X	X
3022-35 Advanced Electronic Resin	Dow Chemical Company		X	X
3022-46 Advanced Electronic Resin	Dow Chemical Company		X	X
327 AZ MIF Developer	Clariant		X	X
351-CC Positive Photoresist Developer	Cyantek Chemicals		X	X
354 Microposit Developer	Shipley		X	X
400K AZ Developer	Hoechst Celanese		X	X
400T AZ Photoresist Stripper	Hoechst Celanese	L0494-A2	X	X
4-Methyl-2-Pentanone	Aldrich		X	X
5214-E AZ Photoresist	Clariant	70D93021	X	X
5214-E AZ Photoresist	Hoechst Celanese		X	X
651VM Semiconductor Materials	Du Pont Electronics		X	X
8002-A Chrome Etchant CE	Transene Company		X	X
86-PF Negative Developer	Cyantek Corporation		X	X
Acetic Acid Solution	Microchem Corp.		X	X

Acetic Acid, Glacial	Alfa Aesar			X		X
Acetic Acid, Glacial	J.T. Baker			X		X
Acetic Acid, Glacial Reagent ACS	ACROS	42322-0025		X		X
Acetone	J.T. Baker	9005-05		X		X
Acetylene	Mittler Supply Inc.			X		X
Adhesion Concentrate QZ 3289	Olin Microelectric Materials			X		X
Adhesion Promoter AP2500	Dow Chemical Company	AP2500		X		X
Adhesion Solvent QZ 3290	Olin Microelectric Materials			X		X
Adv. Stripper System Primary Stripper A	Dow Chemical Company	50743		X		X
Advanced Adhesion Promoter AP3000	Dow Chemical Company			X		X
Advanced Adhesion Promoter AP8000	Dow Chemical Company			X		X
Advanced Electronic Resin 3022-35	Dow Chemical Company			X		X
Advanced Electronic Resin 3022-46	Dow Chemical Company			X		X
AL-12 Aluminum Etchant	Cyantek Chemicals	AL-12		X		X
Alumina Alpha 1C, Gamma 3B, Alpha 2A	Buehler UK			X		X
Aluminum Shot	Alfa Aesar			X		X
Ammonia	Mittler Supply Inc.			X		X
Ammonium Flouride ACS	Ashland	A-467 or 3019244		X		X
Ammonium Hydroxide	Fisher Scientific	A6695-212		X		X
Ammonium Hydroxide	J.T. Baker	9733-03		X		X
Ammonium Sulfide Solution	Fisher Scientific			X		X
AP2500 Adhesion Promoter	Dow Chemical Company	AP2500		X		X
AP3000 Advanced Adhesion Promoter	Dow Chemical Company			X		X
APS Copper Etchant 100	Transene Company	50124		X		X
Argon	AGA Gas, Inc.			X		X
AZ 1500 Thinner	Hoechst (Ashland)			X		X
AZ 327 MIF Developer	Clariant	70353220		X		X
AZ 400K Developer	Hoechst Celanese			X		X
AZ 400T Photoresist Stripper	Hoechst Celanese	L0494-A2		X		X
AZ 5214-E Photoresist	Clariant	70D93021		X		X
AZ 5214-E Photoresist	Hoechst Celanese			X		X
AZ Developer	Clariant			X		
AZ nLOF 2020 Photoresist	Clariant			X		X
AZ P4330 - RS Photo Resist	Hoechst (Ashland)			X		
AZ P4620 Photo Resist	Clariant			X		
Boron Nitride Solid	Carborundum Company			X		X
Boron Trichloride	Matheson Tri-Glass Inc.			X		X
Boron Trichloride	MG Industries			X		X

Boron Trifluoride - BF3	Airgas Inc			X		X
Bromine	Fisher Scientific	B385-50		X		X
Buffered Oxide Etch	J.T. Baker	5175-03		X		X
Carbon Fullerene	Carbon Nanotechnologies Inc.			X		X
Carbon Tetrachloride	Aldrich	28,911-6		X		X
Catalyst 24LV	Emerson and Cuming, Inc.			X		X
Catechol	Alfa Aesar			X		X
Catechol	Fisher Scientific	P370-500		X		X
CC-200.60 Positive Photoresist Developer	Cyantek Corporation			X		X
CC-351 Positive Photoresist Developer	Cyantek Chemicals			X		X
Chlorine	Mittler Supply Inc.			X		X
Chlorobenzene	Fisher Scientific			X		X
Chlorobenzene	J.T. Baker			X		X
Chloroform	Fisher Scientific	C298-4		X		X
Chloroform, Anhydrous	Aldrich	28,830-6		X		X
Chrome Etchant CE 8002-A	Transene Company			X		X
Chromium Etchant Type 1020 AC	Transene Company			X		X
Citric Acid Monohydrate	Alfa Aesar	22869		X		X
Citric Acid Monohydrate	Fisher Scientific	A104-500,3		X		X
Cobalt	Super Conductor Materials	7440-48-4		X		X
Colloidal Silver Paste Pelco	Ted Pella, Inc	16032		X		X
Copper Etchant Type 100/200	Transene Company			X		X
Copper Plating Solution	Transene Company			X		X
CR-4 Chromium Photomask Etchant	Cyantek Chemicals	CR-4		X		X
Cyclotene	Dow Chemical Company			X		X
DE6018 Solution	Du Pont Electronics			X		X
Deuterium	Airgas Inc			X		X
Deuterium Oxide	Alpha Aesar			X		X
Developer DS3000	Dow Chemical Company			X		X
Dimethyl Formamide (N,N-)	Fisher Scientific	7860		X		X
Dowanol PNP Glycol Ether	Dow Chemical Company			X		X
Envi-Ro-Tech Duster	Tech Spray, Inc.			X		X
Etching Bath Additive	Fluorad 3M	FC-93		X		X
Ethanolamine	Aldrich	11,016-7		X		X
Ethyl Alcohol USP 190 Proof	Aaper	01B21QA		X		X
Ethyl Lactate Etch	Purac BioChem - Netherlands			X		
Ethylene Glycol	Fisher Scientific	E178-500		X		X
Ethylenediamine	Aldrich	E479-500		X		X

Ethylenediamine	Alfa Aesar	31331		X		X
Ethylenediamine	Fisher Scientific			X		X
Ferric Nitrate Nonahydrate, Iron (III) Nitrate	GFS Chemicals, Inc			X		X
Fluorochemical Surfactant	Fluorad 3M	98-0211-0890-1, FC-99		X		X
Fomblin® Y-LVAC 16/6	Ausimont USA, Inc.			X		X
Gold	Kurt J. Lesker Company			X		X
Gold Potassium Cyanide	Science Alliance			X		X
Gold Wire	Alfa Aesar			X		X
Helium, Gas	Mittler Supply Inc.			X		X
Hexadecane	Aldrich	29,631-7		X		X
Hexamethyldisilazane HMDS X-10, X20	Transene Company			X		X
HMDS Electronic Grade	Transene Company	90019		X		X
HNR 120 Negative Resist	Olin Microelectric Materials (Arch)	388		X		X
Hydrazine Anhydrous	Aldrich	21,515-5		X		X
Hydrobromic Acid Techn	Fisher Scientific			X		X
Hydrochloric Acid	J.T. Baker	9539-05		X		X
Hydrofluoric Acid	Fisher Scientific	A146-1		X		X
Hydrofluoric Acid 9560-01	J.T. Baker	9560-01		X		X
Hydrogen	Mittler Supply Inc.			X		X
Hydrogen Peroxide 30%	Fisher Scientific	H325-500		X		X
Hydrogen Peroxide Solution	J.T. Baker	2186-03		X		X
Isopropanol <i>SEE 2-Propanol</i>				X		X
L-Tartaric Acid, ACS	Alfa Aesar	36405		X		X
MCC Acryl Strip	Microlithography Chemical Corp.	R072001		X		X
Megaposit SPR 3012 Photo Resist	Shipley			X		X
Methane	Mittler Supply Inc.			X		X
Methanol	J.T. Baker	9070-05		X		X
Methanol	Sigma			X		X
Methanol, Absolute	J.T. Baker	9069-01		X		X
Methyl Alcohol	J.T. Baker			X		X
Methyl Ethyl Ketone	Fisher Scientific	M209-500		X		X
Methylene Chloride	Fisher Scientific	D37-500		X		X
Methylene Chloride	J.T. Baker			X		X
Microposit 1400 Series Photo Resist	Shipley			X		X
Microposit 1813 Photo Resist	Shipley			X		X
Microposit 354 Developer	Shipley			X		X
Microposit Developer S1813	Shipley			X		X
Microposit MF-CD-26 Developer	Shipley			X		X

Microposit Remover 1165	Shipley	38680		X		X
Microposit S1400-27 Photoresist	Shipley	41280		X		X
Microposit Thinner Type P	Shipley	38000		X		X
Molybdenum IV Oxide, Molybdenum Dioxide	GFS Chemicals, Inc			X		X
Nano 200 PMMA	Microchem Corp.			X		X
Nano 200 PMMA A2	Microchem Corp.			X		X
Nano 2200 PMMA	Microlithography Chemical Corp.			X		X
Nano 50 PMMA C6	Microchem Corp.			X		X
Nano 950 PMMA	Microchem Corp.	M240002		X		X
Nano 950 PMMA A2	Microchem Corp.			X		X
Nano 950 PMMA C2	Microlithography Chemical Corp.			X		X
Nano 950 PMMA C3	Microchem Corp.			X		X
Nano 950 PMMA C6	Microlithography Chemical Corp.	M240006		X		X
Nano A Thinner	Microchem Corp.			X		X
Nano Acryl Strip	Microchem Corp.			X		X
Nano C Thinner	Microchem Corp.			X		X
Nano MMA (8.5) MAA EL 11	Microchem Corp.			X		X
Nano MMA (8.5)MAA	Microchem Corp.	M410009		X		X
Nano MMA(17.5) MAA E9	Microlithography Chemical Corp.			X		X
Nano MMA(17.5) MAA EL 9	Microlithography Chemical Corp.	M410009		X		X
N-Butyl Acetate	Olin Microelectric Materials (Arch)	123-68-4		X		X
Negative Resist Developer WNRD	Olin Microelectric Materials			X		X
Nickel Slug	Alfa Aesar			X		X
Nickel Wire	Alfa Aesar			X		X
Nitric Acid	Ashland			X		X
Nitrogen	Mittler Supply Inc.			X		X
Nitrous Oxide	Mittler Supply Inc.			X		X
NYE Fluoroether Grease 857A	William F. Nye Company			X		X
NYE Nyogel 779	William F. Nye Company			X		X
NYE Nyogel 795A	William F. Nye Company			X		X
NYE Rheolube 365	William F. Nye Company			X		X
NYE Synthetic Oil 132G	William F. Nye Company			X		X
Octadecyltrichlorosilane	Aldrich	104817		X		X
Octafluorocyclobutane	Specialty Gases of America			X		X
Oxygen	Mittler Supply Inc.			X		X
P4330 AZ - RS Photo Resist	Hoechst (Ashland)			X		
P4620 AZ Photo Resist	Clariant			X		
PCM Plus Copper Gleam	LeaRonel			X		

PD-86 Negative Developer	Cyantek Corporation			X		X
PEPR 2400 Photo Resist	Shipley	10560		X		X
PF-86 Negative Developer	Cyantek Corporation			X		
PF-95 Photomask Fixer	Cyantek Corporation			X		X
Phosphoric Acid	Ashland	3785060		X		X
Phosphorosilicafilm	Emulsitone Co.			X		X
PI2590 Polyimide Coating	Du Pont Electronics			X		X
PI2613 Polyimide Coating	Du Pont Electronics			X		X
PI2725 Polyimide Coating	Du Pont Electronics			X		X
Pluronic L-62 Surfactant	BASF			X		X
POL Metal Polish	Energy Beam Sciences, Inc.			X		X
Polyhydroxy Ether Solution	EMD a Division of Cermolloy			X		X
Polyimide Thinner QZ 3288	Olin Microelectric Materials			X		X
Polymide Etcher QZ 3296	Olin Microelectric Materials			X		X
Potassium Chloride	Fisher Scientific	P217-500		X		X
Potassium Cyanide	Alfa Aesar	12136		X		X
Potassium Dichromate	Fisher Scientific			X		X
Potassium Hydroxide	Fisher Scientific	P250-3, 5318-500		X		X
Potassium Iodine	ACROS			X		X
Primary Stripper A	Dow Chemical Company			X		X
Propylene Glycol	J.T. Baker	9402		X		X
PRS-1000 Positive Photoresist Stripper	J.T. Baker	6383-03		X		X
QZ 3288 Polyimide Thinner	Olin Microelectric Materials			X		X
QZ 3289 Adhesion Concentrate	Olin Microelectric Materials			X		X
QZ 3290 Adhesion Solvent	Olin Microelectric Materials			X		X
QZ 3296 Polymide Etcher	Olin Microelectric Materials			X		X
QZ 3297 Rinse	Olin Microelectric Materials			X		X
RB-90 Reversal Bleach	Cyantek Chemicals	RB-90		X		X
Reversal Bleach RB-90	Cyantek Chemicals			X		X
RI9045 Solution	Du Pont Electronics			X		X
Rinse QZ 3297	Olin Microelectric Materials			X		X
Rosin Flux Cored Solder 44	Kester Solder			X		X
Rosin Soldering Flux 1544	Kester Solder			X		X
Roto Etch 121	Transene Company			X		X
RSE Slow-Silicon Etch 100	Transene Company			X		X
S1813 Microposit Developer	Shipley			X		X
Semiconductor Material VM651	Du Pont Electronics			X		X
Silicafilm	Emulsitone Co.			X		X

Silicone kitchen/bath low odor neutral cure	Red Devil, Inc.			X		X
Silver Paste, Colloidal Pelco	Ted Pella, Inc			X		X
Sodium Carbonate	Fisher Scientific			X		X
Sodium Carbonate	Protocad	15-0209-10		X		X
Sodium Citrate	Fisher Scientific			X		X
Sodium Hydroxide	Fisher Scientific	95584		X		X
Sodium Sulfite	Fisher Scientific	96520		X		X
Solution RI9045	Du Pont Electronics			X		X
Stripper A Adv. Stripper System Primary	Dow Chemical Company	50743		X		X
Stycast 2850ft black	Emerson and Cuming, Inc.			X		X
Sulfur Hexafluoride	Mittler Supply Inc.			X		X
Sulfuric Acid	J.T. Baker			X		X
Sulfuric Acid	VWR Scientific Products	VW6840-3		X		X
Sulfuric Acid, P.A.	Acros			X		X
Tetrafluoromethane - CF4, Halocarbon 14	Airgas Inc			X		X
Tetrahydrofuran	Fisher Scientific	T397-500		X		X
Threadlocker Low Strenght 222MS	Loctite Corporation			X		X
Tinsilicafilm	Emulsitone Co.			X		X
Titanium	Kurt J. Lesker Company			X		X
Toluene	Fisher Scientific	T-324		X		X
Tri (2-Carrboxyethyl) Phosphine HCL	Roche Diagnostics Corporation			X		X
Trichloroethene	Fisher Scientific			X		
Trichloroethylene	Fisher Scientific	T341-500		X		X
Triton X-100	Sigma	T9284		X		X
Triton X-100 Surfactant	Dow Chemical Company			X		X
Vacuum Pump Fluid/oils 1500, 1600, 16000	Du Pont Electronics			X		X
VM651 Semiconductor Material	Du Pont Electronics			X		X
WNRD Negative Resist Developer	Olin Microelectric Materials			X		X
X-100 Triton	Sigma	T9284		X		X
Xylenes	J.T. Baker	9493-03		X		X
Xylenes	Sigma			X		X
Xylenes, Hexamethyldisilaze	Transene Company			X		X
Xylenes/Cyclohexanone	Van Waters & Rogers Inc.			X		X
Zincsilicafilm	Emulsitone Co.			X		X