

Annual Chemical Inventory for the Notre Dame Nanofabrication Facility

Updated 21 May 2026

SR B06 - Bonder Room					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
99.5% Isopropyl Alcohol	VWR International	1	16 oz	BDH2027-1GLP	67-63-0
Forming Gas - 5% Hydrogen with Argon Balance	Airgas	1	200 cu ft		

SR B27 - Subfab					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
Gojo Pumice Hand cleaner	GOJO	1	1 gal	955	
Cleaner Degreaser	ww Grainger	1	1 qt	49NW14	
Thermal EG	Julabo	1	5 L		107-21-1
Thermal H10	Julabo	1	10 L	8940114	
Gas Lines					
All gases from Stinson Remick room 128 A - Hazardous Gas room					
Liquid Nitrogen - LN2	Airgas	1		Bulk LN2 tank outside building	7727-37-9
Nitrogen (gas)	Airgas	1		Bulk LN2 tank outside building	7727-37-9
Oil Cabinet					
A120 Vacuum pump oil	Adixen	1	1 L	10990	
A120 Vacuum pump oil	Adixen	1	2 L	16157	
Fomblin RT 15 Vac Grease	Solvay Solexis	1	100 g	0431sp	
Fomblin Y-LVAC 14/6	SOLVAY SOLEXIS	1	1 kg		
Fomblin Y-LVAC 14/6	Ausimont USA, Inc. (Kurt J Lesker - recl	1	1 gal		
Fomblin Y-LVAC 25/6	Kurt J Lesker - reclaimed	1	1 kg		
Oil Inland 19	PFEIFFER	1	0.5 L	5631	
LVO400	Leybold	1	1 L	L40001	
MPO-80-1	Duniway	1	1 gal		
MPO-80-HLF	Duniway	1	0.5 gal		
MPO-200-1	Duniway	1	1 gal		
Vactra Oil #10 (Velocite oil #10)	Mobil	1	1 gal		
Cylinder					
Helium (gas)	Airgas	1	UHP300	He UHP300	7440-59-7

SR B27 - Subfab Flammable locker - Developer					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
AZ 917 MIF developer	AZ Electronic Materials	16	1 gal	AZ MIF 917	75-59-2

SR B27 - Subfab Flammable locker - Small EBL					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
Map Pro Torch Fuel	ACE Hardware	1	400 gr	2365864	

SR 123 -Lithography room					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
none at this time	--		--	--	--

SR 124- SEM Room					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
Benches					
99.5% Isopropyl Alcohol	VWR International	5	16 oz	BDH2027-1GLP	67-63-0
Acetone	BDH	5	16 oz	BDH2025	67-64-1

SR 124A - EBL Room					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
Benches					
99.5% Isopropyl Alcohol	VWR International	5	16 oz	BDH2027-1GLP	67-63-0

SR 125 - Cleanroom					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
Benches					
99.5% Isopropyl Alcohol	VWR International	5	16 oz	BDH2027-1GLP	67-63-0
Acetone	BDH	5	16 oz	BDH2025	67-64-1
Cerium(IV) and Dilute Nitric Acid etchant	Alfa Aesar	1	4 L	42110	
Chiller Fluid (for MJB4)	Princelitte GMBH	2	500 mL	PGL-04-00162	
Methanol	JT Baker /Avantor	1	4 L	9073-05	67-58-1
Remover PG	Microchem Corp	3	4 L	G050200	872-50-4
SU-8 Developer	MicroChem Corp	1	4 L	Y020100	108-65-6
Cylinders					
Argon	Airgas	1	UHP300	AR UHP300	7440-37-1
CO2 (by 100-8 hood in fab)	Airgas	1		CO-BD200S (Taller)	124-38-9
CO2 (by 100-8 hood in fab)	Airgas	1		CD-SFE15AS	124-38-9
Helium (by 100-8 hood)	Airgas	1	UHP300	He UHP300	7440-59-7
Gas Lines					
All gases from Stinson Remick room 128 A - Hazardous Gas room					
Liquid Nitrogen - LN2	Airgas	1		Bulk LN2 tank outside building	7727-37-9
Nitrogen (gas)	Airgas	1		Bulk LN2 tank outside building	7727-37-9
III-V Furnace					
LIQ-702 Liquid Coolent	KOOLANCE	1	10 L	LIQ-702CL-10L	
Stepper					
Delicate Machine Oil 131A	Nye	1	500 mL	131A	8042-47-5
Thermco					

TransLC		1	Currently installed and information is not visible
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SR 125 - Cleanroom Acid Cabinet					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
2-Amino-4-chlorobenzoic acid	ThermoScientific	1	25 gram	A10201.14	89-77-0
Acetic Acid, Glacial	J.T. Baker/ Avantor	1	9 lb	9513-05	64-19-7
Aluminum Etchant Type D	Transene	2	1 gallon	151707	
Ammonium chloride	Alfa Aesar	1	2 kg	12361	#####
Buffered Oxide Etch 10:1	Transene	2	1 gal		
Chromium Etchant, std	Aldrich	1	500 mL	651826-500mL	
Chromium Etch 1020AC	Transene	1	1 gal		
Cerium (IV) and dilute Nitric Acid	Alfa Aesar	1	4 liter	42110	
Citric Acid Monohydrate	VWR Life Sciences	1	2.5 kg	210.14	5949-29-1
Citric Acid Monohydrate, 99.5+%	ThermoScientific	1	1 kg	022869.A1	5949-29-1
Copper Etchant CE-200	Transene Company	1	1 gal		
Cobalt chloride (CoCl2)	ThermoScientific	1	250 gr	12303	7646-79-9
Hafnium(IV) chloride, 99.9%	ThermoScientific	1	25 gr	45612.14	#####
Hydrochloric Acid	JT Baker	2	10 lb	9539-05	7647-01-0
Hydrofluoric Acid, 52%	Macron	5	1 lb	7664-39-3	2648-12
Iron (III) Chloride Solution	Sigma Aldrich	1	2.5 L		
Nitric Acid	J.T Baker / Avantor	1	7 lb	5801-13	7697-37-2
Phosphoric Acid 85%	J.T. Baker/ Avantor	3	14 lb	264	
Sulfuric Acid, 96%	J.T. Baker/ Avantor	3	15 lb	9684-05	7664-93-9
Techni-Strip P1331	Technic	1	5 L	P1331	
Titanium etchant TFTN	Transene Company	1	1 qt		

SR 125 - Cleanroom Caustic Cabinet					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
Novo Developer 5035S	Transene	1	1 gal	351DEV-1GL	
Ammonium Hydroxide (29%)	J.T. Baker/ Avantor	2	8 pt	9731-03	7732-18-5
Ammonium Sulfide Solution 20-24% solution	ThermoScientific	1	500 mL	033286.AP	12135-75-1
AZ 400T Stripper	AZ / Clariant	1	1 gal	AZ 400 T	872-50-4
AZ 917 MIF Developer	AZ Electronic Materials	5	1 gal	AZ 917 MIF	75-59-2
Gold Etchant, Std	Sigma Aldrich	2	500 mL	651818-500mL	7681-11-0
Hydrogen Peroxide Solution, 30%	J.T. Baker/ Avantor	3	8 pt	2190-03	7722-84-1
MA-R-404-S	MicroResist	2	2.5L	MA-R-404-S	
MA-D-525	MicroResist	2	1 L	MA-D-525	
Potassium Hydroxide	VWR	1	2.5 kgr	BDH9262-250g	1310-58-3
Potassium Hydroxide	Ward's Science	1	100 gr	40302-142	1310-58-3
Potassium Hydroxide	Alfa Aesar	1	100 gr	44273	1310-58-3
Potassium Hydroxide	Sigma Aldrich	1	500 gr	306568-500G	1310-58-3
Sodium Chloride	VWR	1	500 gr		7647-14-5
TetramethylAmmoniumHydroxide	Sigma Aldrich	2	250 mL	328251-250mL	75-59-2
Tungsten Etchant Type TFW	Transene	2	1 qt		

SR 125 - Cleanroom Refrigerator					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
AR-P 6200.04	AllResist	1	250 mL	CSAR 62	
AR-P 6200.09	AllResist	1	100 mL	CSAR 62	
AZ MIR 701R(14cps)	AZ / Clariant	1	1 gal		
AZ P4620 Photo Resist	AZ / Clariant	1	1 qt	10567123457	
Discharge H2O X2	Dischem	1	25 ml	DCH2X-26-04-01	
ESpacer 300z	Showa Denko K.K.	3	100 gr		
KL IR Lift-off 15 (Refridge)	Kemlab	1	100 mL		
HSQ 6% in MIBK	EM Resist LTD	5	100 mL		
LOR 5A	Kayaku Advanced Material	2	500 mL	G516608 05006 1GL	
LOR 5B	Kayaku Advanced Material	1	500 mL	G316708 05006 1GL	
MMA (8.5) MAA EL 11	MicroChem Corp	1	500 mL	M310011 0500L 1GL	
NDG-5000R Non doped glass	Desert Silicon	1	8 oz		
NR9g-1500PY	Futurrex	1	16 oz	NR9g-1500PY	
SPR 220-7.0 (see Megaposit SPR 220-7.0)	Rohm Hass Electronic Materials	2	0.25 Gal	10016640	
950 PMMA C7	Kayaku Advanced Material	1	500 mL	M240007 05006 1GL	
SU-8 2025	Microchem Corp.	1	500 mL	Y111069 05006 1GL	
SU-8 2075	Kayaku Advanced Material	1	500 mL	Y111074 05006 1GL	
SU-8 3005	MicroChem Corp	1	500 mL	Y111074 05006 1GL	
SU-8 3025	MicroChem Corp	1	500 mL	Y311072 05006 1GL	
SU-8 3035	MicroChem Corp	1	500 mL	Y311079 05006 1GL	
SU-8 3050	Kayaku Advanced Material	1	500 mL	Y311075 05006 1GL	
SU-8 3050	Microchem Corp.	1	500 mL	Y311075 05006 1GL	
XR-1541-002 E-Beam Resist in MIBK	Dow Corning Corp	1	125 mL	2987015-0398	
XR-1541-006 E-Beam Resist in MIBK	Dow Corning Corp	1	125 mL	2987015-0398	

SR 125 - Cleanroom Solvent (Flammable) Cabinet					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
3022-46 (Dow CYCLOTENE)	Dow	1	200 g	026780-96-1	108-67-8
AR 600-546	AllResist	1	2.5 L		
AZ nLOF 2035 Photoresist	AZ / Clariant	1	0.25 gal		
AZ 5214-E IR Photoresist	AZ Electronic Materials	1	0.25 gal		
BrewerBOND 230	Brewer Science	1	1 L	BSI Part: B99160-15g	
cool-grease (CGR7016, white jar/black lid)	AI Technology	1	1 oz	CGR7016	
Hexamethyldisilazane HMDS X-10	Transene Company	2	1 gal		
LOR 3A	Kayaku Advanced Material	1	500 ml	G516606	
LOR 5A	Kayaku Advanced Material	2	500 mL		
LOR 30C	Kayaku Advanced Material	1	1 L	G7137161000L1GL	

Methyl Ethyl Ketone	Avantor	1	500 ml	6240-04	78-93-3
Methyl Isobutyl Ketone	Sigma Aldrich	1	500 ml		0108-10-1
Methyl Isobutyl Ketone	Avantor	1	500 ml	6247-04	0108-10-1
495 PMMA A2	Kayaku Advanced Material	1	500 mL	M1300020500L1GL	
495 PMMA A4	Kayaku Advanced Material	1	500 mL	M1300040500L1GL	
495 PMMA A6	Kayaku Advanced Material	1	500 mL	M1300060500L1GL	
950 PMMA A2	Kayaku Advanced Material	2	500 ml	M2300020500L1GL	
950 PMMA A4	Kayaku Advanced Material	1	500 ml	M2300004	
950 PMMA C2	Kayaku Advanced Material	2	500 ml	M240002	
950 PMMA C2	Microchem Corp..	3	500 ml	M240002	
950 PMMA C9	Microchem Corp.	1	1 L	M240009	
ma-N 2403	Micro Resist Technology	1	250 ml		
ma-N 2403	Microresist Technology	1	500 ml		
ma-N2401	Micro Resist Technology	1	250 ml		
ma-N2410	Micro Resist Technology	1	500 ml		
MMA (8.5) MAA EL 6	Kayaku Advanced Material	2	500 ml	M310006	
MMA(8.5) MAA EL 9	Kayaku Advanced Material	4	500 ml	M410009	
MMA(8.5) MAA EL 13	Kayaku Advanced Material	1	500 mL		
PMGI SF 5	Kayaku Advanced Material	1	500 ml	G113105	
PMGI SF 13	Microchem Corp.	1	500 ml	G113113	
Remover PG	Kayaku Advanced Material	1	4 L	G0502004000L1PE	
SPR ™ 700- (1.2) (see Megaposit SPR 700-(1.2))	Rohm Hass Electronic Materials	1	1 gal	SPR700-1.2	
S1813 Positive Photoresist (see Microposit S1813)	Rohm Hass Electronic Materials	2	0.25 gal	S1813	
SurPass 4000	Micro Resist Technology	1	100 ml		26658-46-8
SU-8 100	Kayaku Advanced Material	1	500 ml	Y1312730500L1GL	
SU-8 Developer	Micro Resist Technology	1	4 L		
SU-8 Developer	Kayaku Advanced Material	1	4 L		
ZEP520A	Zeon Corp	2	125 ml		

SR 126 - Cleanroom					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
Benches					
99.5% Isopropyl Alcohol	VWR International	5	16 oz	BDH2027-1GLP	67-63-0
Acetone	BDH	5	16 oz	BDH2025	67-64-1
Cylinders					
Helium (by PECVD)	Airgas	1	UHP300	He UHP300	7440-59-7
Nitrogon (by 1000-7 hood)	Airgas	1	UHP300	NI UHP300	7727-37-9
Gas Lines					
All gases from Stinson Remick room 128 A - Hazardous Gas room					
Liquid Nitrogen - LN2	Airgas	1		Bulk LN2 tank outside building	7727-37-9
Nitrogen (gas)	Airgas	1		Bulk LN2 tank outside building	7727-37-9
Fiji ALD #1, Jin					
Tetrakis(dimethylamino)titanium TDMAT	Strem	1	25 gr	98-4016	3275-24-9
(t-Butylimido)tris(diethylamino)niobium(V), Min 98%	Strem	1	25 gr	41-0450	210363-27-2
Fiji ALD #2, Koester					
Currently being installed	--	1	--	--	--
Lesker ALD					
Tetrakis(dimethylamino)titanium TDMAT	Strem	1	25 gr	98-4016	3275-24-9
Trimethylaluminum TMA	Strem	1	25 gr	98-4003	75-24-1
Tetrakis(dimethylamino)hafnium(IV) TDMAH	Sigma Aldrich	1	25 gr	98-4021	19782-68-4
Tris(l-propylcyclopentadienyl)lanthanum(99.9-La)	Strem	1	25 gr	57-4000	68959-87-5
Titanium Tetrachloride TiCl4	Strem	1	25 gr	98-4033	7550-45-0
Tris(Dimethylamino)Silane 3DMAS	Strem	1	25 gr	98-4035	15112-89-7
Tetrakis(dimethylamino)zirconium(IV) TDMAZ	Strem	1	25 gr	98-4012	#####
Memsstar					
Xenon Difluoride	Pelchem	1	1000 gr		13709-36-9
Savannah ALD					
Tetrakis(dimethylamino)hafnium TDMAHf	Strem	1	25 gr	98-4003	19782-68-4
Trimethylaluminum TMA	Strem	1	25 gr	98-4021	75-24-1
Tetrakis(dimethylamino)hafnium -c04	Sigma-Aldrich	1	25 gr	725498-10G	916596-94-6

SR 126 - Cleanroom Deposition Materials					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
Aluminum Pellet 99.99%	Kurt J. Lesker	1	1 LB	EVMAL40QXQ	7429-90-5
Aluminum pellets, 99.999%	Angstrom	1	100 g	QA04-00100	
Aluminum Slug 99.99%	Alfa Aesar	1	250 g	42327	7429-90-5
Aluminum Pellet 99.999%	Kurt J. Lesker	1	250 g	EVMAL50EXEJ	7429-90-5
Aluminum shot 99.999%	Alfa Aesar	1	250 g	10573	7429-90-5
Aluminum shot 99.999%	iamaterials	1	25 g	81223	7429-90-5
Aluminum slug 99.9999%	Alfa Aesar	1	100 g	43357	7429-90-5
Aluminum Oxide Pieces	Kurt J. Lesker	1	100 g	EVMALO-1230D	1344-28-1
Aluminum/Silicon Pellets, 98/2	Kurt J. Lesker	1	500 g	EVMAISISPL02	
Aluminum/Silicon Pellets, 98/2 (NO LABEL)		1			
Aluminum/Silicon Pellets, 99/1	OERAC	1	450 g	X0030040-011005	
Aluminum/Boron/Silicon Pellets, 98/1/1		1			
Chromium pellets, 99.95%	Angstrom	1	100 g	QA04-01000	
Cobalt pieces 99.95%	Super Conductor Materials	1	200 g		7440-48-4
Germanium pieces 99.999%	Kurt J. Lesker	1	147 g	EVMGE50500GM	7440-56-4
Germanium pieces 99.999%	Alfa Aesar	1	250 g		7440-56-4
Germanium/Gold pieces, 93/7 99.999%	Kurt J. Lesker	1	25 g	EVMGEAUSPL01	
Gold Pellets, 99.99% Purity	Glines & Rhodes	1	100 gr		7440-57-5
Hafnium pellets, 99.9%	Kurt J. Lesker	1	1 LB	EVMHF30QXQ	7440-58-6
Magnesium Fluoride pieces, 99.99%	Kurt J. Lesker	1	500 g	EVMMGF-1-2.5T	7783-40-6
Molybdenum Pellets, 99.95%	Kurt J. Lesker	1	1 LB	EVMMO35EXQ	
Molybdenum Pellets, 99.99% (plastic bag)		1			

Molybdenum Oxide pieces, 99.95%	Kurt J. Lesker	1	25 g	EVMMOO3-6MMA	
Molybdenum Oxide powder, 99.9995%	Alfa Aesar	1	100 g	12930	
Nickel Pellets 99.995%	Kurt J. Lesker	1	100 g	EVMNI45QXQD	7440-02-0
Nickel pellets, 99.999%	Angstrom	1	100 g	QA04-04100	
Nickel Chromium Pellets, 80/20, 99.95% (Purdue)	Kurt J. Lesker	1	? g	EVMNICRQXQ-D	
Nickel Chromium Pellets, 80/20, 99.95%	Research and PVD Materials	1	100 g	P1677544	
Nickel Iron Pellets, 81/19, 99.9%	Plasmaterials	1	? g		
Niobium pellets, 99.95%	Kurt J. Lesker	1	50 g	EVMNB35EXEB	7440-03-01
Palladium Shot, 99.95% Purity	Kurt J. Lesker	1	30 gr	EVMPD35SHOT	7440-05-03
Platinum Pellets, 99.99% Purity	Glines & Rhodes	1	70 gr		7440-06-04
Silicon pieces, 99.999% pure	Kurt J. Lesker	1	50 g	EVMSI1047B	7440-21-3
Silicon pieces, P-Type, 99.999% pure	Kurt J. Lesker	1	50 g	EVMSI1-3MMB	7440-21-3
Silicon Dioxide pieces, 99.99%	Kurt J. Lesker	1	100 g	EVMSIO240D	7631-86-9
Silicon Dioxide Starter Source, 99.995%	Kurt J. Lesker	1		EVMSIO12.563	7631-86-9
Silver Pellets, 99.99% Purity	Kurt J. Lesker	1	250 gr	EVMAG40EXE-j	7440-22-4
Tantalum Pellets, 99.95%	Kurt J. Lesker	1	50 g	EVMTA35QXQB	7440-25-7
Tantalum Pellets, 99.95% (no other info)		1			7440-25-7
Titanium pellets, 99.995%	Angstrom	2	100 g	QA04-05608	7440-32-6
Tin/Aluminum alloy ingot, 95/5	Atlantic Materials	1			
Tellurium Dioxide, 99.9999%	MSE PRO	1	100 g	05223B2	
Tungsten pellets, 99.95%	Kurt J. Lesker	1	100 g	EVMW35QXQD	7440-33-7
Tungsten pellets, 99.95%	Angstrom	1	100 g	QA04-05800	7440-33-7
Vanadium pellets, 99.7%	Kurt J. Lesker	1	100 g	EVMVX27EXED	7440-62-2
Zinc Sulfide pieces, 99.99%	Kurt J. Lesker	1	100 g	EVMZNS40312D	
Sputtering targets:					
Aluminum Oxide 99.99%, 3" Dia x 0.25" Thick	plasmaterials	1			
AlSi(2%), 3" Dia	plasmaterials	1			
Aluminum Silicon 98/2, 99.999%, 3" Dia x 0.25" Thick	plasmaterials	1			
Aluminum Silicon 98/2, 3" Dia x 0.25" Thick	Plasmaterials	1		QA13-00350	
Bismuth Telluride, 99.99%, 57mm Dia x 3mm Thick	Kurt J. Lesker	1			
Carbon, 3" Dia		1			
Chromium, 3" Dia	Kurt J Lesker	1			
Cobalt, 3" Dia		1			
Copper, 99.999%, 3" Dia	Angstrom Sciences	1		P1571410	7440-50-8
In2O3, 3" Dia		1			
In2O3/WO3, 95/5 wt%, 3" Dia		1			
In Ga Zn Oxide (IGZO), 3" Dia		1			
ITa(0.5%)O, 3" Dia		1			
MgO, 3" Dia		1			
Nickel, 99.995%, 3" Dia x 0.02" Thick	plasmaterials	1			
Silicon, updoped, 3" Dia		1			
Silicon, poly Si, 3" Dia		1			
Silicon, 3" Dia		1			
Silver, 3" Dia		1			
SnO, 3" Dia		1			
SnTiO3, 3" Dia		1			
Titanium, 3" Dia	Kurt J Lesker	1			
TIN OXIDE, 3" Dia		2			
Tantalum, 3" Dia		1			
Ta2SnO6, 3" Dia		1			
Tungsten, 99.95%, 3" Dia x 0.25" Thick	Kurt J. Lesker	1		EJTWXX353A4	
Tungsten, 3" Dia	Angstrom Engineering	1			
WSi2, 3" Dia		1			
W90% - Ti10%, 3" Dia		1			
Angstrom Engineering Sputter system					
DC1, Titanium, 3" Dia	Kurt J Lesker	1			
DC2, Gold (Au), 3" Dia	Kurt J Lesker	1			
DC3, Tungsten (W), 3" Dia	Kurt J Lesker	1			
RF5, ITa(1%)O, 3" Dia		1			
RF6, ITO (90/10), 3" Dia		1			
Oerlikon 450B Single Chamber Sputtering System					
DC1 - Molybdenum (Mo), 3" Dia	Kurt J Lesker	1			
DC2 - Aluminum (Al), 3" Dia	Kurt J Lesker	1			
DC3 - Tungsten (W), 3" Dia	Kurt J Lesker	1			
RF1 - SiO2, 3" Dia		1			
RF2 - IWO1% , 3" Dia		1			
PVD Sputter System					
DC1 - Germanium (Ge), 2" Dia		1			
DC2 - Titanium (Ti), 2" Dia		1			
DC3 - Palladium (Pd), 2" Dia		1			
RF1 - Ta2O5, 2" Dia		1			
RF2 - In2O3, 2" Dia		1			
Plassys Sputter System					

SR 126 - Hinkle Deposition Materials					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
Bi piece, 99.999% Purity	Kurt J Lesker	1			
Cr Pellet, 99.997% Purity	alfa Aesar	1			
Co Pellet, 99.95% Purity	alfa Aesar	1			
Eu Piece, 99.99% Purity	Stanford Advanced Materials	1			
Fe Pellet, 99.99 % Purity	Kurt J Lesker	1			7439-89-6
Ga ingot, 99.99999% Purity	Alfa Aesar	1			
Hf Powder, ~325 Mesh, 99.6% Purtiy	Stanford Research Materials	1			
Hf Foil, 99.5 Purity	Kurt J Lesker	1			
In Wire		1			

Mg Pellet		1			7439-95-4
MO Pellet, 99.95 Purity	KurtJ Lesker	2			
Ni Pellet, 99.995 Purity	KurtJ Lesker	1			
Pd Pellet, 99.95 Purity	KurtJ Lesker	1			
Pt Pellet, 99.99 Purity	KurtJ Lesker	2			
Se shot, 99.999 Purity	Alfa Aesar	1			
Si lump, 99.9999 Purity	Alfa Aesar	2			
SiO2 Powder	Alfa Aesar	1			
Sn Flake		1			
Ti Pellet, 99.995% Purity	Kurt J Lesker	1			
Te Shot, 99.9999 Purity	Alfa Aesar	1			
V Rod, 99.8 Purity	Goodfellow	1			
V Pellet, 99.8 purity	Thermo Science	2			
W Pellet, 99.95 purity	Kurt J Lesker	1			
Zn Pellet, 99.99 purity	Kurt J Lesker	3			7440-66-6
Zr Pellet, 99.95 purity	Kurt J Lesker	1			7440-67-7
Zr mesh, ~325 powder	Thermo Science	1			
ZrH2 mesh, ~325 powder, 99% Purity	Sigma Aldrich	1			
ZrH2 mesh, ~325 powder, 99% Purity	Thermo Science	1			
ZrH2 mesh, ~325 powder, 99% purity	Kurt J Lesker	1			

SR 127 - Cleanroom					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
Benches					
99.5% Isopropyl Alcohol	VWR International	5	16 oz	BDH2027-1GLP	67-63-0
Acetone	BDH	5	16 oz	BDH2025	67-64-1
CMP					
Gas Lines					
All gases from Stinson Remick room 128 A - Hazardous Gas room					
Liquid Nitrogen - LN2	Airgas	1		Bulk LN2 tank outside building	7727-37-9
Nitrogen (gas)	Airgas	1		Bulk LN2 tank outside building	7727-37-9
Lapping Station					
Colloidal Silica, CS1, 0.08 u	Ted Pella, INC	2	1.2 gal	815-120-1	
Alumina suspension 0.05 u	Allied High Tech Products Inc	1		90-187540	1344-28-1
Diamond suspension 1 u (monocrystalline)	Allied High Tech Products Inc	1	16 oz	90-32115	
Dialube suspension 1 u (polycrystalline)	Allied High Tech Products Inc	1	16 oz	90-3DL1H	
Diamond suspension 1 u (MicroDi)	South Bay Tech. INC	1	16 oz	DS002-16	
Aluminum Oxide Powder, 0.3 u	Electron Microscopy Sciences	1		50361-05	1344-28-1
Aluminum Oxide Powder, 1.0 u	Electron Microscopy Sciences	1		50361-10	1344-28-1
Aluminum Oxide Powder, 3.0 u	Electron Microscopy Sciences	1		50362-03	1344-28-1
Aluminum Oxide Powder, 5.0 u	Electron Microscopy Sciences	1		50362-05	1344-28-1
Agilis MOCVD					
Mark 12 May					
Gas Mix - 2% Propane	AirGas	1	30 cF	X02Hy98C35H133	
Gas Mix - 2% Silane	AirGas	1	28.8 c F	X02HY98C33A51N9	
Oxford ALD					
Siva 11 May					
Pentakis Dimethylamino Tantalum	Sigma Aldrich	1	100 gr		19824-59-0
Dimethylaminopropyl dimethylIndium	Dockweiler Chemical GMBH	1	25 gr	807-399-B	120441-92-1
Tetrakis(dimethylamino)hafnium(IV) TDMAH	Strem	1	25 gr	98-4021	19782-68-4
Tetrakis(dimethylamino)germanium(IV)	Strem	1	25 gr	98-4062	7344-40-3
Bis(diethylamino)silane BDEAS	SAFC Hitech/Sigma Aldrich	1	50 gr	Q35582	27804-64-4
Bis(t-butylimido)bis(dimethylamino)tungsten IV	Strem	1	25 gr	74-1225	406462-43-9
SMI CVD					
Trimethylgallium TMGa	Sigma Aldrich	1	100 gr	TMGAEP-246RN-100G	1445-79-0
TMA	SAFC	1	Currently installed and information is not visible		

Room 127A - Flammable Locker (Solvents)					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
99.5% Isopropyl Alcohol	VWR International	12	1 gal	BDH2027-1GLP	67-63-0
Acetone	BDH	12	1 gal	BDH2025	67-64-1
Methanol	JT Baker /Avantor	4	4 L	9073-05	C
Remover PG	Kayaku Advanced Material	1	4 L	G050200	872-50-4
AR 600-546	All Resist	1	2.5L		
Technistrop NI555	Technic International	1	5 L		
1165 Remover	Microposit	1	1 gal	10018072	872-50-4

Room 127A - Flammable Locker (Photoresists)					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
1,3,5 Trimethyl Benzeine 3 III		1			
200 Proof Ethanol	KOPTEC	1			64-17-5
1-methyl-2-pyrrolidinone (2 Bottles)	Sigma-Aldrich	1		270458	872-50-4
Anisole 99.7%	Sigma Aldrich	1			100-66-3
Adhesion Promoter AP3000	DDP Specialty Electronics Materials	1			
AZ KWIK Strip Remover	AZ Electronic Materials	1	1 gal	18451123164	
Benzene, Anhydrous, 99.8%	Alfa Aesar	1		43817	71-43-2
Cyclopentanone 99%	ACROS	1			120-92-3
Cyclotene 3022-35 Advanced Electronics Resin	Dow Chemical Company	1			
Cyclotene 3022-46 Advanced Electronics Resin	Dow Chemical Company	1			
Cyclotene 3022-57 Advanced Electronics Resin		1			
ma-N 2403	Micro Resist Technology	1	500 ml		
ma-N 2410	Micro Resist Technology	1	500 ml		
mr-Rem 500	Microresist Technology	1	1 L		2687-91-4
RedLube Polishing Lubricant	Allied High Tech Products Inc.	1			
Methyl Ethyl Ketone	Macron	1	500 mL		

Methyl Isobutyl Ketone	BTC Beantown Chemicals	1	500 mL	122260-500mL	
Microposit 1165 Remover		1	1 gal	10018072	872-50-4
MMA (8.5) MAA EL 6	Microchem Corp.	1	500 ml	M310006	
PMGI SF 5	Microchem Corp.	1	500 ml	G113105	
PMGI SF 15	Kayaku Advanced Material	1	500 ml	G113115	
Propylene glycol monomethyl ether acetate	Sigma-Aldrich	1		484431	108-65-6
Wafer Bond Remover	Brewer	1	1 G	B51670-23	
VM652	HD Microsystems	1		919-30-2	107-98-2

SR 128A - H-Room Acid Cabinets					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
Buffered Oxide Etch 10:1	Transene	2	1 gal		
Hydrochloric Acid	JT Baker	2	10 lb	9539-05	7647-01-0
HydroFlouric Acid	CMC Materials	1	1 gal	B140213H-5L	
Nitric Acid	J.T Baker / Avantor	1	7 lb	5801-13	7697-37-2
Phosphoric Acid 85%	JT Baker	1	14 lb	JT0264-5	
Nickel Sulfamate SN-10		1	1 gal		
Technistrip P1331		1	5 L		
Sulfuric Acid, 96%	J.T. Baker/ Avantor	4	15 lb	9684-05	7664-93-9

SR 128A H-Room Caustic Cabinet					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
Ammonium Hydroxide 29%	JT Baker	1	8 pt	9731-03	1336-21-6
Hydrogen Peroxide 30%	JT Baker	4	8 pt	2190-03	

SR 128A - H-Room Gas Cylinders					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
Ammonia	Matheson Tri-gas	2	50 lbs		7664-41-7
Argon	Airgas	2	300 cu ft	AR UHP300	7440-37-1
Boron Trichloride	Matheson Tri-gas	1			10294-34-5
Carbon Tetraflouride	Airgas	1			56-23-5
Chlorine	Praxair	1	15 lbs		7782-50-5
DichloroSilane (10% H2SiHCl2, balance Nitrogen)	Airgas	1			4109-96-0
Flouroform (CHF3)	Airgas	1	70 lbs	RF SM200	75-73-0
Helium	Airgas	1	300 cu ft	He UHP300	7440-59-7
Hydrogen	Airgas	1	300 cu ft	HY UHP300	1333-74-0
Hydrogen 5%/Nitrogen - balance	Airgas	1		X02NI95C3000092	
Hydrogen 10%/Nitrogen - balance	Airgas	1			
Hydrogen 10%/Argon - balance	Airgas	1		X02AR90C300RFSR	
Methane	Airgas	1			74-82-8
Nitrogen	Airgas	7	300 cu ft	NI UHP300	7727-37-9
Nitrous Oxide	Airgas	1		NS UL200	10024-97-2
Octofluorocyclobutane C4F8	Airgas	1	85 lbs		115-25-3
Oxygen	Airgas	1	300 cu ft	OX UHP300	7782-44-7
Silane (10% SiH4, balance Nitrogen)	Matheson Tri-gas	1			7803-624
Sulfur Hexafluoride (SF6)	Airgas	1	200 cu ft	SH EL200	2551-62-4

SR 128A - H-Room Flammable Locker, Large					
Siva 11 May					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
Bis(diethylamino)silane BDEAS	Strem	1	25 gr	14-7030	27804-64-4
Bis(t-butylimido)bis(dimethyamino)tungsten IV	Strem	1	25 gr	74-1225	406462-43-9
Benzene	Sigma Aldrich	1	100 gr	EC 200-753-7	71-43-2
Borazine	Gelest	1	100 gr	INB0009	6569-51-3
Carbon Tetrabromide CBr4		1	100 gr		558-13-4
Dimethylaluminum hydride DMAH	SAFC Hitech/Sigma Aldrich	1			865-37-2
Hafnium (IV) Chloride	Strem	1	25 gr	72-0751	#####
Phenyl mercaptan Benzenetiol	Sigma Aldrich	1	100 gr	T32808	108-98-5
Tetrakis(dimethylamino)germanium(IV)	Strem	1	25 gr	98-4062	7344-40-3
Tetrakis(dimethylamido)hafnium(IV) TDMAH	Strem	1	25 gr	98-4021	19782-68-4
Tetrakis(dimethylamido)titanium(IV) TDMAT	Sigma Aldrich	1	50 gr	669008-50G	3275-24-0
Tetrakis(dimethylamino)tin (IV)	Strem	1	25 gr	98-4050	1066-77-9
Tetrakis(dimethylamino)zirconium(IV) TDMAZ	Strem	1	25 gr	98-4012	#####
Tetrakis(ethylmethyldamido)hafnium(IV) TEMA	Strem	1	10 gr	98-4048	352535-01-4
Tetrakis(dimethylamino)titanium TDMAT	Strem	1	25 gr	98-4016	3275-24-9
Titanium Tetrachloride TiCl4	Strem	1	25 gr	98-4033	7550-45-0
Trimethylaluminum TMA	Strem	1	25 gr	98-4008	75-24-1
Trimethylaluminum TMA	Strem	1	25 gr	98-4003	75-24-1
Trimethylaluminum TMA	Sigma Aldrich	1	25 gr	663301-25G	75-24-1
Trimethylgallium TMGa	Sigma Aldrich	1	100 gr	TMGAEP-246RN-100G	1445-79-0
Trimethyl(methylcyclopentadienyl)platinum(IV) PTTMMC	SAFC Hitech/Sigma Aldrich	1	25 gr	645605-25G	94442-22-5
TrimethylIndium TMI	Strem	1	25 gr	98-4056	3385-78-2

SR 128A - H-Room Flammable Cabinet, Medium					
Ga Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
Xenon Difluoride	Pelchem	1	1000 gr		13709-36-9

SR 128A - H-Room Flammable Cabinet, Small					
Unused at this time					

SR 132 - Dicing Saw					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #

99.5% Isopropyl Alcohol	VWR International	1	1 gal	BDH2027-1GLP	67-63-0
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SR 134 - Electronic Shop					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
3 in 1 Counter Multisurface Cleaner	Statx Brands Co.	1		10184	
All Purpose Cleaner	Lysol	1	32 oz		
Antistatic Freeze Mist	GC Electronics	1		19-8410-00SF	
Degreaser Big Bath GC	GC Electronics	1		19-0905-0000	
De-ox-id Contact Cleaner	GC Electronics	1		19-1906	
Grease, Lith-Flex multipurpose	Harvest King	1			
Grease, Multipurpose (yellow)	Plews Parker	1		30-126	
Grease, White Lithium (2 containers)	Lubrimatic (plews & Edelman)	1			
Kleen-It Tech Spray	Tech Spray Inc	1		2410-12S	
Loctite 4204 Adhesive		1			
Maxim Mega Mop	MidLab Inc	3	1 gal	FC 1800	
Molykote 55	Dow Corning	1		55	
Neutral Cleaner #3	Diversey Stribe	4	1 gal	3904	
QD Electroinc Cleaner (x2)	CRC Industries Ince	1			
SB -180 Caulk	Surebond	1			
Silicone Compound #4	Dow Corning	1		4	
Sn40Pb60	Kester	1		24-4060-0061	
Snoop Liquid Leak Detector	Swagelok	1			
TFE Dry Lube	Dem-Kote	1			
Thermal Joint Compound (in bag)	Omega	1		OT-201-16	
WD 40	WD 40 Company	1			
Zero Mist Circuit Cooler	GC Electronics	1		10-8667	
3 in 1 oil	3-IN-ONE	1			
Dicing Saw					
AFC Grease	THK	1			
Disco Grinder					
AFG Grease	THK	1			

SR 134 - Electronics Ship Flammable Cabinet (Solvents)					
Mark 12 May					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
99.5% Isopropyl Alcohol	VWR International	10	1 gal	BDH2027-1GLP	67-63-0
Acetone	BDH	10	1 gal	BDH2025-1GLP	67-64-1
Primelite Coolant (MJB4)	Kuhlmittel	1			

SR 134A - Machine Shop					
Mark 12 May					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
Aluminum cutting oil - Tap Magic	The Steco Corp.	1	4oz		
Aluminum cutting oil - Tap Magic	The Steco Corp.	2	16 oz	20016A	

SR220 - Superfab					
Mark 12 May					
Gas or Chemical	Manufacturer	Qty	Size	Part #	Cas #
Forane 401A	Arkema	1	30 lbs	5.00E+58	