

RESTRICTED ITEMS LIST

December 2008

The Restricted Items List has two sections: *Prohibited Items* and *Special Treatment Items*.

PROHIBITED ITEMS

Prohibited Items are items the Laboratory is prohibited by its Prime Contract with DOE from purchasing with Government funds without special approval. *Prohibited Items* are not to be purchased using PCard, eBay or B2B System Contracts. These items may be purchased on regular purchase orders only after DOE approval is obtained.

ITEM	REFERENCE
ANY ITEM THAT IS NON-ESSENTIAL FOR LABORATORY BUSINESS	SP 31.3 Unallowable Expense
Advertising to Promote the University	Jeff Miller or Lynn Yarris
Beverage, Alcohol	SP 31.3
Bindery Services	Faye Hutchings
Bonds (other than construction, performance, labor, and material bonds)	Facilities
Contributions & Donations	SP 31.3
Copying (Photo)	Faye Hutchings
Decorative Items	SP 31.3
Duplicating Services	Faye Hutchings
Entertainment expense	SP 31.3
Fines or penalties caused by willful misconduct	SP 31.3
Framing for personal use	SP 31.3
Gifts	SP 31.3
Insurance (including value declarations)	SP 31.3
Hospitals and related medical services	SP 31.3
Housing	SP 31.3
License fees (except software license, without terms and conditions)	SP 13.1
Lobbying costs	
Lodging costs	Anil More
Luxury Items (e.g. leather bound desk accessories, grades above what is absolutely necessary to accomplish the Lab's mission)	SP 31.3
Memberships in social, dining, or country clubs	SP 31.3
Ornamental items (pictures, plants, etc.)	SP 31.3
Permits	SP 31.3
Personal Property (items of a personal nature, e.g. microwave oven, coffee pot, radio, refrigerators, etc.)	SP 31.3

ITEM	REFERENCE
Personal property for employees (reimbursement due to loss)	SP 31.3
Photocopying	Faye Hutchings
Promotional items, memorabilia, models, gifts, and souvenirs	SP 31.3
Quality Affected Project Items for Yucca Mountain	Earth Sciences – Peter Lau
Recreational equipment	SP 31.3
Royalties on Patents	SP 31.3

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SPECIAL TREATMENT ITEMS

Special Treatment Items require special approvals, controls, or safety measures. These items may only be purchased when the specified requirements are met. Items marked with an asterisk (*) may not be purchased using a PCard or a B2B Systems Contract and must be purchased using a purchase order. **Items purchased through the eBuy application are automatically routed to the designated EH&S contacts for approval or review. eBuy users must still comply with safety and other requirements associated with the items on this list.**

Miscellaneous Items

ITEM	REFERENCE	DPU Y/N
Abatement	EH&S	N
Asbestos	EH&S	N
Auditing services by CPA's	Internal Audit	N
Automated External Defibrillation (AED) Equipment	EH&S – Susan Broadway	Y
Automotive Accessories (not original equipment)	Facilities	Y
Automotive – Gas or Electric - Rental or Purchase	Facilities	N
Background Checks and Degree Verifications	Human Resources	N
Biological agents (see below on list)	EH&S	Y
Biosafety cabinets	EH&S	Y
Breathing Apparatus	EH&S	Y
Business cards	Faye Hutchings	N
* Cameras Digital, Still, & Video	Sensitive item	Y
Carpets	Facilities	N
* CD Recorders	Sensitive item	Y
* CD Writers	Sensitive item	Y
Cell Phones (purchase & rental)	Richard Gregory	N
Cell Phone Providers	Richard Gregory	N
Chairs	SP 31.3	Y
Chemical Storage Cabinets	EH&S	Y
Chemicals (selected chemicals see below on lists)	EH&S	Y
* Computer CD, DVD as external devices	Sensitive item	Y
Computers, CPU's, Servers, Sensitive Property (KST & Dell only)		Y
Conferences, all types – including reservations for conferences or hosted by the Laboratory	Anil More	N
Confined Space Work (construction)	EH&S	N
Construction work, including on University-owned Buildings (e.g. Campus Buildings: Donner, Hearst, etc.)	Facilities	N

ITEM	REFERENCE	DPU Y/N
Consultants (Expert Technical Assistance)		N
* Controlled property – equip \$5k and above + life expectancy >2 yrs. unless tagged by vendor	John Morgan	Y
Copy machines	Blanket contract	N
Corrosive storage cabinets	EH&S	Y
Cranes	Facilities Crane/Elevator Office (Steve Wright) for purchase approval	N
Degree Verifications and Background Checks	Human Resources	N
Demolition Involving Lead and Confined Spaces	EH&S	N
Deposits (cylinders, reels, etc.)		N
Deuterium gas (D2)	EH&S	N
* Dictating Recorders	Sensitive item	Y
Draperies	Facilities	N
Drench hoses	EH&S	Y
Drug Precursors (see below on list)	EH&S	N
Dust masks (see below note on dust masks)	EH&S	Y
* DVD Recorders	Sensitive item	Y
* DVD Writer	Sensitive item	Y
Ear Muffs	EH&S	Y
Ear Plugs	EH&S	Y
Eavesdropping devices	Security	N
Electron microscopes		Y
Equipment Producing Ionizing and Non-Ionizing Radiation	EH&S	N
Excess materials	Facilities	N
* Exchanges (must notify Property Manager & Property Accounting)	John Morgan and Ann Ku	Y
Explosives (see below on list)	EH&S	N
* External Hard Drives	Sensitive item	Y

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ITEM	REFERENCE	DPU Y/N
Eyewashes	EH&S	Y
* Fabrications (based on drawings, etc.)	SP 13.1	Y
Family Radio Service	Robert Ngim	N
Fasteners, grade 5 and above – hex head cap screws	Michelle Flynn – Office of Assessment and Assurance	N
* Fax Machine – All in One	Sensitive item	Y
Filtering equipment used to control airborne contaminant emissions (e.g., HEPA filters)	EH&S	Y
Fire Extinguishers	EH&S	N
Flammable storage cabinets	EH&S	Y
Food for employees/meetings		N
Foreign origin, material value >\$2,500 unless previously approved by a Procurement Supervisor		Y
Freezers	EH&S & SP 31.3	Y
Fume hoods <i>(if vendor installed NO)</i>	Facilities & EH&S	Y
Furniture, household, office-quarters, chairs, filling cabinets	SP 31.3	Y
Gas cabinets	EH&S	Y
Gases (see below Gases list)	EH&S	N
Glove boxes	EH&S	Y
* Hard Drives – External	Sensitive item	Y
Hearing Protection	EH&S	Y
Heavy water (D20)		N
Helium	EH&S	N
HEPA Filtered Vacuum cleaners and attached filtering	EH&S	Y
Hoists	Facilities Crane/Elevator Office (Steve Wright) for purchase approval	N

ITEM	REFERENCE	DPU Y/N
Hoods <i>(if vendor installed NO)</i>	Facilities & EH&S	Y
Hoods, lab fume <i>(if vendor installed NO)</i>	Facilities & EH&S	Y
Instruments containing radioactive sealed sources (see below on list)	EH&S	N
Internet Service Providers		N
Intra-University Transactions (UC Regents Orders)		N
* iPod	Sensitive Item	Y
Laminar airflow hoods <i>(if vendor installed NO)</i>	EH&S	Y
Laser Protective Eyeware	EH&S	Y
Lasers (excluding laser pointers)	EH&S	Y
Lead	EH&S – notify Tim Roberts	Y
Lead Abatement (construction)	EH&S	N
Lead Containing Products	EH&S – notify Tim Roberts	Y
Lead Shielding	EH&S – notify Tim Roberts	Y
Leases		N
Machine tools (e.g. large lathes, etc.)		Y
Microwave and Radiowave Sources (see below on list)	Robert Ngim	N
Microwave Ovens	EH&S & SP 31.3	Y
* MP3 Player	Sensitive item	Y
* Multi-Functional Office Equipment (printers, scanners, fax, copiers /all in one units/)	Sensitive item	Y
Narcotics, Drugs-Controlled	EH&S	N
Office Equipment Repairs – Typewriters	John Morgan	Y

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ITEM	REFERENCE	DPU Y/N
On-Site Service, repairs etc., not included on the Designated Commercial Services list and/or in a hazard work area (restricted - all construction related work including fencing, roofing, carpet, window replacement, etc.) see SP 28.2	EH&S	Y
Over the Counter Medications, (aspirin, etc.)	Medical	N
Ozone Depleting Substances (See below on list for Trade/Chemical Name)	EH&S	N
Pagers	Richard Gregory	N
* Personal Data Assistants/PDA/ all Personal Digital Assistants & Organizers with a PC Connection / iPod /Hand Held Computers/ MP3Player	Sensitive Item	Y
Precious metals (gold, iridium, osmium, palladium, platinum, rhodium, ruthenium, and silver)	Controlled Item	N
Printing services	Faye Hutchings	N
* Printers	Sensitive item	Y
Printing equipment	Blanket contract	N
* Property, controlled (see controllable property)	John Morgan	Y
Radioactive materials and isotopes (see below on list)	EH&S	N
Radio Frequency Spectrum Dependent Devices (portable, mobile, microwave, CB's, family radio service, 2 way radios). Used for communication	Robert Ngim	N
Reactive chemicals (see below on list)	EH&S	Y

ITEM	REFERENCE	DPU Y/N
Real Property (land, buildings, lease, purchase or improvements)	Construction	N
* Recorders /CD, DVD, Dictating & Video/	Sensitive item	Y
Refrigerators	EH&S & SP 31.3	Y
Renovation	EH&S	N
Rentals (Not to Exceed 30 days, no terms and conditions)	Distributed Procurements Policy and Guidelines	Y
Respirators (See below note on dust masks)	EH&S	N
Restocking Fees	John Morgan	Y
Rigging Equipment	Facilities Crane/Elevator Office (Steve Wright) for purchase approval	N
Safety Shoes	EH&S	N
Safety Showers	EH&S	Y
SANR		N
Scales, Industrial (Calibration Certification requirements)		N
* Scanners for computers	Sensitive item	Y
* Sensitive Items (Cameras, Video Projectors, Printers, Recorders (CD, DVD, Dictating & Video), Scanners for Computers, Video Cameras (TV, Movie & Video), Personal Data Assistants (PDA's, MP3 Player, iPod – hand held computers), Multi-Functional Office Equipment (printers, scanners, fax, copiers /all in one units/)	Sensitive item	Y
Services (on-site Berkeley Lab) see On-Site Services SP 28.2		Y

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Miscellaneous Items

ITEM	REFERENCE	DPU Y/N
Servers (KST & Dell only)		Y
* Signs containing tritium	EH&S	Y
Slings	Facilities Crane/Elevator Office (Steve Wright) for purchase approval	N
Subscriptions – Scientific & Technical	Library	N
Telecommunications/Telephone Equipment (e.g. pagers, headsets, telephone, cell phones, cell phone providers, internet service providers, remote access services to Lab)	Richard Gregory	N
Towing	Blanket (Insurance Requirements)	N
* Trade-ins (must notify Property Manager & Property Accounting)	John Morgan & Ann Ku	Y
Training Classes (on-site Berkeley Lab exception: if no industrial or chemical hands-on activity is required – see SP-28.2)		Y
Training Classes (off-site if travel over 150 miles)	Anil More	N
Transportation	Facilities	N
Travel	Anil More	N
UC Regents Orders (Intra-University Transactions)		N
X-ray equipment including accessory devices	EH&S	Y
Vacuum cleaners HEPA Filtered and attached filtering	EH&S	Y
Vehicle – Gas or Electric – Rental or Purchase	Facilities	N
* Video Cameras – TV, Movie & Video	Sensitive item	Y

ITEM	REFERENCE	DPU Y/N
* Video Projectors portable	Sensitive item	Y
* Video Recorders	Sensitive item	Y
Wireless networking access points		N

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EH&S – RELATED RESTRICTED ITEMS

Drug Precursors

Notification: The following Drug Precursors may not be purchased with a PCard or B2B Systems Contract., **they can be purchased on eBay.** They are subject to controls established by EH&S.

1,2-(Methylenedioxy)-4-(2-propenylbenzene
1,2-(Methylenedioxy)-4-(1-propenylbenzene)
1-alpha-[1-(ethylmethylamino)ethyl]benzyl alcohol
1-Ethylephedrine
1-Phenyl-2-methylaminopropanol
1-Phenyl-1-hydroxy-2-methylaminopropane
1-Phenyl-2-keto-propan
2,4,6-Trihydroxy-primidine
2-Aminobenzoic Acid
2-Carbomethoxy-3-tropanone
2-Keto-3-phenyl-propane
2-Methylamino-1-phenyl-1-propanol
2-Methylethylamino-1-phenyl-1-propanol
2-N-Acetyl-2-aminobenzoic Acid
2-phenylacetic Acid
3,4-(Methylenedioxy)-benzene - Any compounds with this in it.
3,4-(Methylenedioxy)-5-benzaldehyde
3-(2-aminoethyl)-indole
4-[2-(Dimethylamino)-1-hydroxyethyl]-1,2-benzenediol
9,10-didehydro-6-methylergoline-8-beta-carboxylic Acid

- A -

Adrenalin
Aminobenzoic Acid - Any chemicals with this in it.
Amino-benzyl alcohol
Amino-N-acetylbenzoic Acid
Anthranilamide
Anthranilic Acid - Any chemicals with this in it, e.g. Anthranilic Ethyl Ester. **(CSA)**
alpha-aminoethyl-3,4-dihydroxy-benzyl alcohol
alpha-hydroxy-beta-methylaminopropylbenzene
alpha-toluene cyanide
alpha-tolunitrile
alpha-(1-aminoethyl)-benzyl alcohol
alpha-(3,4-Dihydroxyphenyl)-2-dimethylaminoethanol
alpha-[1-Methylamino)ethyl]benzyl alcohol
alpha-[1-Ethylmethylamino)ethyl]benzenemethanol
alpha-[1-(Methylamino)ethyl]benzenemethanol
alpha-[(Dimethylamino)methyl]-3,4-dihydroxy benzylalcohol

- B -

Barbital
Barbitone

Barbituric Acid - Any chemicals listed with Barbituric Acid.
Benzeneacetonitrile
Benzyl Cyanide **(CSA)**
Benzaldehyde **(CSA)**
Bromocryptin

- C -

Chloroephedrine
Chloropseudoephedrine

- D -

Diethylmalonate
Diethylmalonic Acid
d-Lysergic Acid

- E -

Ephedrine **(CSA)**
Ephedrine - Any chemical with this in it. **(CSA)**
Ergo - Any chemical name with this in it, e.g. Bromo-alpha-ergocrypt.
Ergo - Any compounds with this in it.
Ergonovine Maleate
Ergonovine and it's salts **(CSA)**
Ergot - Any chemical name with this in it, e.g. Bromo-alpha-ergocrypt
Ergotamine Tartrate
Ergotamine and it's salts **(CSA)**
Ethyl Malonic Acid
Ethylamine **(CSA)**
Ethyl Malonic Acid
Ethylamine
Ethylmalonate
etafedrine

- H -

Hexahydropyridine
Hydriotic Acid **(CSA)**

- I -

Isosafrole **(CSA)**

- L -

LSD

Questions? Call Eileen Nasto X4535 (ENasto@lbi.gov)

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(CSA) = California Substance Act

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EH&S – RELATED RESTRICTED ITEMS

LSD-50

Lyserg- (followed by additional chemical names)

- M -

Malonic Acid Diethyl Ester

Malonic Acid

Menetryl

Methylamine (CSA)

Morpholine

methylenedioxy- - Any chemicals with this in it.

3,4 – Methylenedioxyphenyl 1-2-Propanone (CSA)

- N -

Nitroethane (CSA)

Norephedrine

Norpseudoephedrine (CSA)

Norpseudoephedrine

Novedrin

N-Ethylephedrine

N-Methyladrenaline

N-Methylephedrine (CSA)

N-Methylpseudoephedrine (CSA)

n-Acetylanthranilic Acid (CSA)

n-Ethylpseudoephedrine

n-(1-phenethyl)-piperidine-4-one

n-(1-phenethyl-4-piperidinyl)-aniline

- O -

omega-cyanotoluene

o-Aminobenzoic Acid

- P -

Phenylacetic Acid (CSA)

Phenylacetone

Phenylacetone nitrile

Phenylethylamine

Phenylpropanolamine (CSA)

Pheny-2-propanone

Phosphorous, red

Piperidine-HCl or Piperidine-HBr

Piperidine (CSA)

Piperonal (CSA)

Propanedioic Acid

Pseudoephedrine (CSA)

Pseudoephedrine - Any chemical with this in it.

Propionic Anhydride (CSA)

Pyrolidine

- S -

Safrole (CSA)

Sulfurous Oxochloride

- T -

Tetrahydropyrrole

Tetrahydro-1-4-oxazine

Thionyl Chloride

Thionyl dichloride

Tropan - Any chemicals with this in it

Tropine

Tropine - Any chemicals with this in it.

Tropolone

Tryptamine Hydrobromide

Tryptamine Hydrochloride

Trytamine

- V -

Veronal

Questions? Call Eileen Nasto X4535 (ENasto@lbl.gov)

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EH&S – RELATED RESTRICTED ITEMS

Laboratory Safety Equipment

Notification: John Seabury ext. 6547

Fume hoods	Hoods (for ventilation)
Gas cabinets	Laminar airflow hoods
Glove boxes	

Approval: Herb Toor ext. 5918

Noise Reducing Headsets

Notification: Herb Toor ext. 5918

Ear Plugs

Notification: Larry McLouth ext. 5286

Acid storage cabinets	Freezers (for lab use)
Chemical storage cabinets	Refrigerators (for lab use)
Corrosive storage cabinets	Safety showers
Flammable storage cabinets	

Notification: Bruce King ext. 2768

BioSafety cabinets

HEPA Filter Containing Devices

Notification: Herb Toor ext. 5918

HEPA filters and HEPA filter devices	HEPA filtered vacuum cleaners
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Respirators - Dust Masks

Approval: Herb Toor ext. 5918

Respiratory protection equipment is purchased and distributed by the EH&S Industrial Hygiene Group. Filtering face piece respirators, commonly known as dust masks, are a type of respiratory protection equipment and are classified as a restricted item. However, filtering face piece respirators may be purchased by employees submitting a requisition using a purchase order, in accordance with the procurement system's restricted items policy. **The requisition item category is Safety Equipment.**

Dust mask use is limited to employees who have completed EHS 0311 – Respirator Awareness Training (Dust Masks). For questions about dust masks contact and Industrial Hygienist or Herb Toor at 486-5918.

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EH&S – RELATED RESTRICTED ITEMS

Biological Agents and Biotoxins

Approval: Bruce King ext. 2768

Restricted “Biological Agents and Biotoxins” include all agents and biotoxins listed below and all Risk Group 3 and 4 biological agents (not listed below). "Agents" include the agent (i.e., organism) and all sub-units (e.g., genetic elements, recombinant nucleic acids) and strains (e.g., recombinant organisms) of the agents. If needed, risk group classifications for many infectious agents can be found at the American Biological Safety Association web page at <http://www.absa.org/resriskgroup.html> or sometimes the vendor web page (e.g., ATCC at <http://www.atcc.org/TechnicalInfo/HowToReviveCultures.cfm>).

HHS NON-OVERLAP SELECT AGENTS & TOXINS	USDA HIGH CONSEQUENCE LIVESTOCK PATHOGENS AND TOXINS/ SELECT AGENTS (OVERLAP AGENTS)
<ul style="list-style-type: none">• Crimean-Congo haemorrhagic fever virus• <i>Coccidioides posadasii</i>• Ebola viruses• Cercopithecine herpesvirus 1 (Herpes B virus)• Lassa fever virus• Marburg virus• Monkeypox virus• <i>Rickettsia prowazekii</i>• <i>Rickettsia rickettsii</i>• So. American haemorrhagic fever viruses<ul style="list-style-type: none">○ Junin○ Machupo○ Sabia○ Flexal○ Guanarito• Tick-borne encephalitis complex (flavi) viruses<ul style="list-style-type: none">○ Central European tick-borne encephalitis○ Far Eastern tick-borne encephalitis○ Russian spring and summer encephalitis○ Kyasanur forest disease○ Omsk hemorrhagic fever• Variola major virus (Smallpox virus)• Variola minor virus (Alastrim)• <i>Yersinia pestis</i>• Abrin• Conotoxins• Diacetoxyscirpenol• Ricin• Saxitoxin• Shiga-like ribosome inactivating proteins• Tetrodotoxin	<ul style="list-style-type: none">• Akabane virus• African swine fever virus• African horse sickness virus• Avian influenza virus (highly pathogenic)• Blue tongue virus (Exotic)• Bovine spongiform encephalopathy agent• Camel pox virus• Classical swine fever virus• <i>Cowdria ruminantium</i> (Heartwater)• Foot and mouth disease virus• Goat pox virus• Lumpy skin disease virus• Japanese encephalitis virus• Malignant catarrhal fever virus (Exotic)• Menangle virus• <i>Mycoplasma capricolum/ M.F38/M. mycoides capri</i>• <i>Mycoplasma mycoides mycoides</i>• Newcastle disease virus (VVND)• Peste Des Petits Ruminants virus• Rinderpest virus• Sheep pox virus• Swine vesicular disease virus• Vesicular stomatitis virus (Exotic)

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EH&S – RELATED RESTRICTED ITEMS

HIGH CONSEQUENCE LIVESTOCK PATHOGENS AND TOXINS/ SELECT AGENTS (OVERLAP AGENTS)	LISTED PLANT PATHOGENS
<ul style="list-style-type: none">• <i>Bacillus anthracis</i>• <i>Brucella abortus</i>• <i>Brucella melitensis</i>• <i>Brucella suis</i>• <i>Burkholderia mallei</i> (formerly <i>Pseudomonas mallei</i>)• <i>Burkholderia pseudomallei</i> (formerly <i>Pseudomonas pseudomallei</i>)• Botulinum neurotoxin producing species of <i>Clostridium</i>• <i>Coccidioides immitis</i>• <i>Coxiella burnetii</i>• Eastern equine encephalitis virus• Hendra virus• <i>Francisella tularensis</i>• Nipah Virus• Rift Valley fever virus• Venezuelan equine encephalitis virus• Botulinum neurotoxin• <i>Clostridium perfringens</i> epsilon toxin• Shigatoxin• Staphylococcal enterotoxin• T-2 toxin	<ul style="list-style-type: none">• <i>Liberobacter africanus</i>• <i>Liberobacter asiaticus</i>• <i>Peronosclerospora philippinensis</i>• <i>Phakopsora pachyrhizi</i>• Plum Pox Potyvirus• <i>Ralstonia solanacearum</i> race 3, biovar 2• <i>Schlerophthora rayssiae</i> var <i>zeae</i>• <i>Synchytrium endobioticum</i>• <i>Xanthomonas oryzae</i>• <i>Xylella fastidiosa</i> (citrus variegated chlorosis strain)

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EH&S – RELATED RESTRICTED ITEMS

Class I Ozone Depleting Substances

Notification: Pat Thorson ext. 5852

Ozone depleting substances are found in adhesives, coating, inks, foams, aerosols, fire suppression and explosion protection, air conditioning and refrigeration, and solvent cleaning. The following are Class I, Ozone Depleting Substances:

Trade Name	Chemical Name & Synonyms – Trademark Name	Trade Name	Chemical Name & Synonyms – Trademark Name
CFC-11	Trichlorofluoromethane [75-69-4] Aigofrene Type 1; Arcton 9; Electro-CF 11; Eskimon 11; F11; FC 11; Fluorocarbon 11; Fluorotrichloromethane; Freon-11; Frigen 11, Genetron 11; Halocarbon 11; Halon 11; Isceon 131; Isotron 11; Kaltron 11, Khaladon 11; Ledon 11; Monofluorotrichloromethane, Propellent 11, Trichlorofluoromethane; Trichloromonofluoromethane	CFC-112	1,2-Difluorotetrachloroethane [76-12-0] 1,2-Difluoro-1,1,2,2-Tetrachloroethane; Fluorocarbon 112; Freon112, Halocarbon 112; Refrigerant 112; 1,1,2,2-Tetrachlorodifluoroethane; 1,1,2,2-Tetrachloro-1,2-Difluoroethane
CFC-12	Dichlorodifluoromethane [75-71-8] Algofrene Type 2; Arcton 6; Arcton 12; Difluorodichloromethane; Electro-CF12; Eskimon 12; F 12; FC 12; Fluorocarbon 12; Freon-12; Frigen 12; Genetron 12; Halocarbon 12; Halon 122, Isotron 2; Ledon 12; Propellent 12; R-12; Refrigerant 12; Refrigerant R12	CFC-211	Heptachlorofluoropropane [422-78-6] None
CFC-113	1,1,2-trichloro- 1,2,2-trifluoroethane [76-13-1] Chlorinated Fluorocarbon, Diflon S-3; FC 133; Freon 113; Freon TF (113); Frigen 113 TR-T; Fluorocarbon 113; Genetron 113; Halocarbon 113; Refrigerant 113; Trichlorotrifluoroethane; Trichloro 1,2,2-Trifluoroethane; Trichloro-1,2,2-Trifluoroethane, 1,1,2-; 1,1,2-Trichlorotrifluoroethane; 1,1,2-Trichloro 1,2,2-Trifluoroethane; 1,2,2-Trichlorotrifluoroethane; 1,1,2-Trifluorotrichloroethane; 1,1,2-Trifluoro-1,2,2-Trichloroethane	CFC-212	Hexachlorodifluoropropane [3182-26-1] None
CFC-114	1,2-Dichlorotetrafluoroethane [76-14-2] Cryofluorane; Dichlorotetrafluoroethane; 1,2-Dichloro-1,1,2,2-Tetrafluoroethane; Dichloro-1,1,2,2-Tetrafluoroethane; Fluorocarbon 114; Freon 114; Halocarbon 114; Halon 242; Propellant 114; R-114; Refrigerant 114; Refrigerant R114	CFC-213	Pentachlorotrifluoropropane [2354-06-5] None
CFC-115	Monochloropentafluoroethane [76-15-3] Chloropentafluoroethane; Fluorocarbon 115; Freon 115; Genetron 115; Halocarbon 115; R-115; Refrigerant R115	CFC-214	Tetrachlorotetrafluoropropane [29255-31-0] None

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EH&S – RELATED RESTRICTED ITEMS

Trade Name	Chemical Name & Synonyms – Trademark Name	Trade Name	Chemical Name & Synonyms – Trademark Name
Halon 1211	Bromochlorodifluoromethane [353-59-3] Chlorodifluorobromomethane	CFC-215	1,2,2-Trichloropentafluoropropane [1599-41-3] Trichloropentafuloropropane
Halon 1301	Bromotrifluoromethane [75-63-8] Fluorocarbon 13B1; Freon 13B1; H-1301; Halocarbon 13B1; R-13B1, Refrigerant 13B1; Refrigerant R13B1; Trifluorobromomethane; Trifluoromethyl Bromide; Trifluoromonobromomethane	CFC-216	1,2-Dichloro-1,1,2,3,3,3-hexafluoropropane [661-97-2] 1,2-Dichlorohexafluoropropane
Halon 2402	1,2 Dibromotetrafluoroethane [124-73-2] 1,2-Dibromoperfluoroethane; Dibromotetrafluoroethane; 1,2-Dibromotetrafluoroethane; 1,2-Dibromo-1,1,2,2-Tetrafluoroethane; 1,1,2,2-Tetrafluoro-1,2-Dibromoethane	CFC-217	Heptafluoropropyl chloride [422-86-6] 1-Chloro-1,1,2,2,3,3,3-Heptafluoropropane
CFC-13	Chlorotrifluoromethane [75-72-9] Halocarbon 13; Trifluoromethyl Chloride		Carbon tetrachloride [56-23-5] Benziinoform; carbona; Carbon Chloride; Carbon Tet; Flukoids; Methane Tetrachloride, Necatorina, Necatorine; Perchloromethane; Refrigerant R10, Tetrachlorocarbon, Tetraloromethane; Tetrafinol; Tetraform; Tetrasol, Univerm; Vermoestricid
CFC-111	Pentachlorofluoroethane Fluoropentachloroethane		1,1,1-Trichloroethane [71-55-6] AerotheneTT; Alpha-Truchloroethane; Chlorothene; Chlorothene NU; Chlorothene VG; Methyltrichloromethane; Methyl Chloroform; 1,1,1-TCE; Solvent 111; Triethane;
			Methyl bromide [74-83-9] Brom-O-Gas; Brom-O-Gaz; Bromot\methane; Brom-O-Sol; Celfume, Curafume, Dowfume, Dowfume MC-2; Dowfume MC-33, EDCO; Embafume; Halon1001; Haltox; Iscobrome; Kayafume; MB; MeBr; Metafume; Methogas; Meth-o-Gas; Monobromomethane; Profume; Rotox; Terabol, Terr-O-Gas; Terr-O-Gas 100; Zytox

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EH&S – RELATED RESTRICTED ITEMS

Health Hazard and Reactive Gases

Approval: John Seabury ext. 6547

Ammonia (NH ₃)	Fluorine (F ₂)	Phosgene (COCl ₂)
Arsenic pentafluoride (AsF ₅)	Germanium tetrahydride (GeH ₄)	Phosphine (PH ₃)
Arsine (AsH ₃)	Hydrogen bromide (HBr)	Phosphorous pentafluoride (PF ₅)
Benzene in air	Hydrogen chloride (HCl)	Phosphorous trichloride (PCl ₃)
Boron trichloride (BCl ₃)	Hydrogen cyanide (HCN)	Phosphorous trifluoride (PF ₃)
Boron trifluoride (BF ₃)	Hydrogen fluoride (HF)	Selenium hexafluoride
Bromine pentafluoride	Hydrogen selenide (H ₂ Se)	Silane (silicontetrahydride-SiH ₄)
Bromine trifluoride (BrF ₃)	Hydrogen sulfide (H ₂ S)	silicon tetrachloride (SiCl ₄)
1,3-Butadiene (C ₄ H ₆)	Iodine pentafluoride (IP ₅)	Silicon tetrafluoride (SiF ₄)
Carbon monoxide (CO)	Methyl bromide (CH ₃ Br)	Stibine (SbH ₃)
Carbonyl fluoride (COF ₂)	Methyl chloride (CH ₃ Cl)	Sulfur dioxide (SO ₂)
Carbonyl sulfide	Methyl silane	Sulfur tetrafluoride (SF ₄)
Chlorine (Cl ₂)	Nickel carbonyl Ni(CO) ₄	Sulfuryl fluoride (SO ₂ F ₂)
Chlorine trifluoride (ClF ₃)	Nitric oxide (NO)	Tellurium hexafluoride (TeF ₆)
Cyanogen (C ₂ N ₂)	Nitrogen dioxide (NO ₂)	Tungsten hexafluoride (WF ₆)
Cyanogen chloride (ClCN)	Nitrogen trifluoride (NF ₃)	Vinyl chloride (C ₂ H ₃ Cl)
Diborane (H ₆ B ₂)	Nitrosyl chloride (NOCl)	
Dichlorosilane (SiH ₂ Cl ₂)	Oxygen difluoride (OF ₂)	

Reactive, Explosive & Unique Hazard Chemicals

Notification: Larry McLouth ext. 5286

2-Furaldehyde	Lithium
Asbestos	Rubidium
Asbestos containing material	Sodium
Beryllium	Phosphorous, yellow
Boron	Phosphorous, white
Cesium	Picric acid
Dicholorborane	Potassium
Francium	
Lead: brick, sheet or block	

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EH&S – RELATED RESTRICTED ITEMS

Chemicals Known to Possess Lethal or Incapacitating Toxicity

Notification: Larry McLouth ext. 5286

Amiton: O,O-Diethyl S-[2-(diethylamino)ethyl] phosphorothiolate and corresponding alkylated or protonated salts [78-53-5]
O-Alkyl (H or <C10, incl. cycloalkyl) S-2-dialkyl(Me, Et, n-Pr or i-Pr)-aminoethyl alkyl (Me, Et, n-Pr or i-Pr) phosphonothiolates and corresponding alkylated or protonated salts
O-Alkyl (<C10, incl. cycloalkyl) alkyl (Me, Et, n-Pr or i-Pr)-phosphonofluoridates
O-Alkyl (<C10, incl. cycloalkyl) N,N-dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidocyanidates
Sarin: O-Isopropyl methylphosphonofluoridate (107-44-8)
Soman: O-Pinacolyl methylphosphonofluoridate (96-64-0)
Tabun: O-Ethyl N,N-dimethyl phosphoramidocyanidate [77-81-6]
VX: O-Ethyl S-2-diisopropylaminoethyl methyl phosphonothiolate [50782-69-9]

Sulfur mustards:

2-Chloroethylchloromethylsulfide [2625-76-5]
Mustard gas: Bis(2-chloroethyl)sulfide [505-60-2]
Bis(2-chloroethylthio)methane [63869-13-6]

Sesquimustard:

1,2-Bis(2-chloroethylthio)ethane [3563-36-8]
1,3-Bis(2-chloroethylthio)-n-propane [63905-10-2]
1,4-Bis(2-chloroethylthio)-n-butane [142868-93-7]
1,5-Bis(2-chloroethylthio)-n-pentane [142868-94-8]
Bis(2-chloroethylthiomethyl)ether [63918-90-1]

O-Mustard:

Bis(2-chloroethylthioethyl)ether [63918-89-8]

Lewisites:

Lewisite 1: 2-Chlorovinylchloroarsine [541-25-3]
Lewisite 2: Bis(2-chlorovinyl)chloroarsine [40334-69-8]
Lewisite 3: Tris(2-chlorovinyl)arsine [40334-70-1]

Nitrogen mustards:

HN1: Bis(2-chloroethyl)ethylamine [538-07-8]
HN2: Bis(2-chloroethyl)methylamine [51-75-2]
HN3: Tris(2-chloroethyl)amine [555-77-1]
Saxitoxin [35523-89-8]
Ricin [9009-86-3]
Alkyl (Me, Et, n-Pr or i-Pr) phosphonyldifluorides
DF: Methylphosphonyldifluoride [676-99-3]

O-Alkyl (H or <C10, incl. cycloalkyl)
O-2-dialkyl(Me, Et, n-Pr or i-Pr)-aminoethyl alkyl(Me, Et, n-Pr or i-Pr) phosphonites and corresponding alkylated or protonated salts
QL: O-Ethyl O-2-diisopropylaminoethyl methylphosphonite [57856-11-8]
Chlorosarin: O-Isopropyl methylphosphonochloridate [1445-76-7]
Chlorosoman: O-Pinacolyl methylphosphonochloridate [7040-57-5]
PFIB: 1,1,3,3,3-Pentafluoro-2-(trifluoromethyl)-1-propene [382-21-8]
BZ: 3-Quinuclidinyl benzilate (*) [6581-06-2]
Chemicals containing a phosphorus atom to which is bonded on a methyl, ethyl or propyl (normal or iso) group but not further carbon atoms
Methylphosphonyl dichloride [676-97-1]
Dimethyl methylphosphonate [756-79-6]
Exemption: Fonofos: O-Ethyl S-phenylethylphosphonothiothionate [944-22-9]
N,N-Dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidic dihalides
Dialkyl (Me, Et, n-Pr or i-Pr) N,N-dialkyl(Me, Et, n-Pr or i-Pr)-phosphoramidates
Arsenic trichloride [7784-34-1]
2,2-Diphenyl-2-hydroxyacetic acid [76-93-7]
Quinuclidin-3-ol [1619-34-7]
N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethyl-2-chlorides and corresponding protonated salts
N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethane-2-ols and corresponding protonated salts
Exemptions: N,N-Dimethylaminoethanol and corresponding protonated salts [108-01-0]
N,N-Diethylaminoethanol and corresponding protonated salts [100-37-8]
N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethane-2-thiols and corresponding protonated salts
Thiodiglycol: Bis(2-hydroxyethyl)sulfide [111-48-8]
Pinacolyl alcohol: 3,3-Dimethylbutan-2-ol [464-07-3]
Phosgene: Carbonyl dichloride [75-44-5]
Cyanogen chloride [506-77-4]
Hydrogen cyanide [74-90-8]
Chloropicrin: Trichloronitromethane [76-06-2]
Phosphorus oxychloride [10025-87-3]
Phosphorus trichloride [7719-12-2]
Phosphorus pentachloride [10026-13-8]

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EH&S – RELATED RESTRICTED ITEMS

Trimethyl phosphite [121-45-9]
Triethyl phosphite [122-52-1]
Dimethyl phosphite [868-85-9]
Diethyl phosphite [762-04-9]
Sulfur monochloride [10025-67-9]
Sulfur dichloride [10545-99-0]

Thionyl chloride [7719-09-7]
Ethyl-diethanolamine [139-87-7]
Methyl-diethanolamine [105-59-9]
Triethanolamine [102-71-6]

Radioactive Materials and Isotopes

Notification: Steve Sohner ext. 6228

Deuterium Gas (D2)
Heavy water (D2O)
Chemicals containing radionuclides including
Tritium [H-3]
Natural uranium [u]
Depleted uranium, enriched uranium
Thorium [Th]
Protactinium [Pa]
Transuranics [atomic number greater than 92]
Radioactive sealed sources
201-Thallium
Instruments and articles containing radioactive sealed sources
Special nuclear material [SNM]) including
Gas chromatographs with electron capture devices
Liquid scintillation counters
Neutron moisture probes (Hydroprobe)
Neutron soil density gauge
Signs containing tritium
Static eliminators
Uranyl nitrate
Uranyl acetate
Thorium acetate
Thorium nitrate
Neutron soil density gauge
Aerosol neutralizers
Plutonium
Uranium-233 or,
Uranium enriched in the isotopes uranium-233 or uranium-235

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EH&S – RELATED RESTRICTED ITEMS

Equipment Generating Laser, Radiowave, Microwave and Ionizing Radiation

Notification: Ken Barat ext. 2544

Laser Protective Eyeware
Class 3 and 4 lasers
Microwave sources (excluding consumer products such as microwave ovens)
Radiowave sources

X-Ray Sources and Equipment

Approval: Robert Fairchild ext. 2278

X-ray sources and equipment including accessory devices