

## RESTRICTED ITEMS LIST

September 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	Don Medley 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

ITEM	REFERENCE
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
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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September 2008

## 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

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ITEM	REFERENCE	DPU Y/N
* External Hard Drives	Sensitive item	Y
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

ITEM	REFERENCE	DPU Y/N
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
* 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)	Benzeneacetonitrile
1,2-(Methylenedioxy)-4-(1-propenylbenzene)	Benzyl Cyanide <b>(CSA)</b>
1-alpha-[1-(ethylmethylamino)ethyl]benzyl alcohol	Benzaldehyde <b>(CSA)</b>
1-Ethylephedrine	Bromocryptin
1-Phenyl-2-methylaminopropanol	
1-Phenyl-1-hydroxy-2-methylaminopropane	<b>- C -</b>
1-Phenyl-2-keto-propan	Chloroephedrine
2,4,6-Trihydroxy-primidine	Chloropseudoephedrine
2-Aminobenzoic Acid	
2-Carbomethoxy-3-tropanone	<b>- D -</b>
2-Keto-3-phenyl-propane	Diethylmalonate
2-Methylamino-1-phenyl-1-propanol	Diethylmalonic Acid
2-Methylethylamino-1-phenyl-1-propanol	d-Lysergic Acid
2-N-Acetyl-2-aminobenzoic Acid	
2-phenylacetic Acid	<b>- E -</b>
3,4-(Methylenedioxy)-benzene - Any compounds with this in it.	Ephedrine <b>(CSA)</b>
3,4-(Methylenedioxy)-5-benzaldehyde	Ephedrine - Any chemical with this in it. <b>(CSA)</b>
3-(2-aminoethyl)-indole	Ergo - Any chemical name with this in it, e.g. Bromo-alpha-ergocrypt.
4-[2-(Dimethylamino)-1-hydroxyethyl]-1,2-benzenediol	Ergo - Any compounds with this in it.
9,10-didehydro-6-methylergoline-8-beta-carboxylic Acid	Ergonovine Maleate
	Ergonovine and it's salts <b>(CSA)</b>
<b>- A -</b>	Ergot - Any chemical name with this in it, e.g. Bromo-alpha-ergocrypt
Adrenalin	Ergotamine Tartrate
Aminobenzoic Acid - Any chemicals with this in it.	Ergotamine and it's salts <b>(CSA)</b>
Amino-benzyl alcohol	Ethyl Malonic Acid
Amino-N-acetylbenzoic Acid	Ethylamine <b>(CSA)</b>
Anthranilamide	Ethyl Malonic Acid
Anthranilic Acid - Any chemicals with this in it, e.g. Anthranilic Ethyl Ester. <b>(CSA)</b>	Ethylamine
alpha-aminoethyl-3,4-dihydroxy-benzyl alcohol	Ethylmalonate
alpha-hydroxy-beta-methylaminopropylbenzene	etafedrine
alpha-toluene cynide	
alpha-tolunitrile	<b>- H -</b>
alpha-(1-aminoethyl)-benzyl alcohol	Hexahydropyridine
alpha-(3,4-Dihydroxyphenyl)-2-dimethylaminoethanol	Hydriotic Acid <b>(CSA)</b>
alpha-[1-Methylamino)ethyl]benzyl alcohol	
alpha-[1-Ethylmethylamino)ethyl]benzenemethanol	<b>- I -</b>
alpha-[1-(Methylamino)ethyl]benzenemethanol	Isosafrole <b>(CSA)</b>
alpha-[(Dimethylamino)methyl]-3,4-dihydroxy benzylalcohol	
<b>- B -</b>	<b>- L -</b>
Barbital	LSD
Barbitone	LSD-50
Barbituric Acid - Any chemicals listed with Barbituric Acid.	Lyserg- (followed by additional chemical names)

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

6

**(CSA) = California Substance Act**

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September 2008

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## EH&S – RELATED RESTRICTED ITEMS

### Drug Precursors

#### - 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  
Thionylchloride  
Tropan - Any chemicals with this in it  
Tropine  
Tropine - Any chemicals with this in it.  
Tropolone  
Tryptamine Hydrobromide  
Tryptamine Hydrochloride  
Tryptamine

#### - V -

Veronal

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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:** Betsy MacGowan ext. 2826

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

**Approval:** Betsy MacGowan ext. 2826)

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 Betsy MacGowan at 495-2826.



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September 2008

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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>).

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

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### EH&S – RELATED RESTRICTED ITEMS

<ul style="list-style-type: none"><li>• <i>Brucella suis</i></li><li>• <i>Burkholderia mallei</i> (formerly <i>Pseudomonas mallei</i>)</li><li>• <i>Burkholderia pseudomallei</i> (formerly <i>Pseudomonas pseudomallei</i>)</li><li>• Botulinum neurotoxin producing species of <i>Clostridium</i></li><li>• <i>Coccidioides immitis</i></li><li>• <i>Coxiella burnetii</i></li><li>• Eastern equine encephalitis virus</li><li>• Hendra virus</li><li>• <i>Francisella tularensis</i></li><li>• Nipah Virus</li><li>• Rift Valley fever virus</li><li>• Venezuelan equine encephalitis virus</li><li>• Botulinum neurotoxin</li><li>• <i>Clostridium perfringens</i> epsilon toxin</li><li>• Shigatoxin</li><li>• Staphylococcal enterotoxin</li><li>• T-2 toxin</li></ul>	<ul style="list-style-type: none"><li>• Plum Pox Potyvirus</li><li>• <i>Ralstonia solanacearum</i> race 3, biovar 2</li><li>• <i>Schlerophthora rayssiae</i> var <i>zeae</i></li><li>• <i>Synchytrium endobioticum</i></li><li>• <i>Xanthomonas oryzae</i></li><li>• <i>Xylella fastidiosa</i> (citrus variegated chlorosis strain)</li></ul>
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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 Names	Trade Name	Chemical Name & Synonyms – Trademark Names
<b>CFC-11</b>	<b>Trichlorofluoromethane [75-69-4]</b> 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	<b>CFC-112</b>	<b>1,2-Difluorotetrachloroethane [76-12-0]</b> 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
<b>CFC-12</b>	<b>Dichlorodifluoromethane [75-71-8]</b> 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	<b>CFC-211</b>	<b>Heptachlorofluoropropane [422-78-6]</b> None
<b>CFC-113</b>	<b>1,1,2-trichloro- 1,2,2-trifluoroethane [76-13-1]</b> 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	<b>CFC-212</b>	<b>Hexachlorodifluoropropane [3182-26-1]</b> None
<b>CFC-114</b>	<b>1,2-Dichlorotetrafluoroethane [76-14-2]</b> 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	<b>CFC-213</b>	<b>Pentachlorotrifluoropropane [2354-06-5]</b> None
<b>CFC-115</b>	<b>Monochloropentafluoroethane [76-15-3]</b>	<b>CFC-214</b>	<b>Tetrachlorotetrafluoropropane [29255-31-0]</b>

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September 2008

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### EH&S – RELATED RESTRICTED ITEMS

			None
	<b>Chloropentafluoroethane; Fluorocarbon 115; Freon 115; Genetron 115; Halocarbon 115; R-115; Refrigerant R115</b>		
<b>Halon 1211</b>	<b>Bromochlorodifluoromethane [353-59-3]</b>	<b>CFC-215</b>	<b>1,2,2-Trichloropentafluoropropane [1599-41-3]</b>
	<b>Chlorodifluorobromomethane</b>		Trichloropentafluoropropane
<b>Halon 1301</b>	<b>Bromotrifluoromethane [75-63-8]</b>	<b>CFC-216</b>	<b>1,2-Dichloro-1,1,2,3,3,3-hexafluoropropane [661-97-2]</b>
	<b>Fluorocarbon 13B1; Freon 13B1; H-1301; Halocarbon 13B1; R-13B1, Refrigerant 13B1; Refrigerant R13B1; Trifluorobromomethane; Trifluoromethyl Bromide; Trifluoromonobromomethane</b>		1,2-Dichlorohexafluoropropane
<b>Halon 2402</b>	<b>1,2-Dibromotetrafluoroethane [124-73-2]</b>	<b>CFC-217</b>	<b>Heptafluoropropyl chloride [422-86-6]</b>
	1,2-Dibromoperfluoroethane; Dibromotetrafluoroethane; 1,2-Dibromotetrafluoroethane; 1,2-Dibromo-1,1,2,2-Tetrafluoroethane; 1,1,2,2-Tetrafluoro-1,2-Dibromoethane		1-Chloro-1,1,2,2,3,3,3-Heptafluoropropane
<b>CFC-13</b>	<b>Chlorotrifluoromethane [75-72-9]</b>		<b>Carbon tetrachloride [56-23-5]</b>
	Halocarbon 13; Trifluoromethyl Chloride		Benziinofom;carbona; Carbon Chloride; Carbon Tet; Flukoids; Methane Tetrachloride, Necatorina, Necatorine; Perchloromethane; Refrigerant R10,Tetrachlorocarbon, Tetraloromethane; Tetrafinol; Tetraform; Tetrasol, Univerm; Vermoestricid
<b>CFC-111</b>	<b>Pentachlorofluoroethane</b>		<b>1,1,1-Trichloroethane [71-55-6]</b>
	Fluoropentachloroethane		AerotheneTT; Alpha-Truchloroethane; Chlorothene; Chlorothene NU; Chlorothene VG; Methyltrichloromethane; Methyl Chloroform; 1,1,1-TCE; Solvent 111; Triethane;
			<b>Methyl bromide [74-83-9]</b>
			Brom-O-Gas; Brom-O-Gaz; Bromotmethane; 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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September 2008

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### **EH&S – RELATED RESTRICTED ITEMS**

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September 2008

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## EH&S – RELATED RESTRICTED ITEMS

### Health Hazard and Reactive Gases

**Approval:** John Seabury ext. 6547

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

### 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]  
Trimethyl phosphite [121-45-9]  
Triethyl phosphite [122-52-1]

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September 2008

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### **EH&S – RELATED RESTRICTED ITEMS**

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]



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September 2008

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## EH&S – RELATED RESTRICTED ITEMS

### 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

### 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

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### **EH&S – RELATED RESTRICTED ITEMS**

**Approval:** Robert Fairchild ext. 2278

X-ray sources and equipment including accessory devices