

# RESTRICTED ITEMS LIST

February 2012

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	John Rhodin
Bonds (other than construction, performance, labor, and material bonds)	Facilities
Contributions & Donations	SP 31.3
Copying (Photo)	Jon Rhodin
Decorative Items	SP 31.3
Duplicating Services	Jon Rhodin
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, facial tissues, radio, refrigerators, etc.)	SP 31.3

ITEM	REFERENCE
Personal property for employees (reimbursement due to loss)	SP 31.3
Photocopying	John Rhodin
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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February 2012

## 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
Alcohol, Ethyl		Y
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	John Rhodin	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
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		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
Consultants (Expert Technical Assistance)		N

ITEM	REFERENCE	DPU Y/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 (Larry Begley) for purchase approval	N
Coupler female Schrader quick disconnect ¼" & 3/8"	Approval Herb Toor	Y
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
* Digital Video Disk (DVD)	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 Players	Sensitive item	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
eBay		N
Electron microscopes		Y
* Electronic Notebook	Sensitive	Y
* Electronic Tablet	Sensitive	Y
Equipment Producing Ionizing and Non-Ionizing Radiation	EH&S	N

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### Miscellaneous Items

ITEM	REFERENCE	DPU Y/N
Excess materials	Facilities	N
* Exchanges (must notify Property Manager & Property Accounting)	John Morgan and Eric Chow	Y
Explosives (see below on list)	EH&S	N
* External Hard Drives	Sensitive item	Y
Eyewashes	EH&S	Y
* Fabrications (based on drawings, etc.)	SP 13.1	Y
Fall Protection Equipment	Facilities	Y
Family Radio Service	Robert Ngim	N
Fasteners, grade 5 and above – hex head cap screws	Melanie Gravois – Office of Contractor 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 >\$3,000 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, filing cabinets	SP 31.3 Must be approved by Laura Chen or Bernie Canio	Y
Gas cabinets	EH&S	Y
Gases (see below Gases list)	EH&S	N
Glove boxes	EH&S	Y
Google Check Out		Y
* Hard Drives – External	Sensitive item	Y

ITEM	REFERENCE	DPU Y/N
* Headsets – noise cancelling & powered	EH&S - Sensitive	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 (Larry Begley) for purchase approval	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 Eyewear	EH&S	Y
Lasers (excluding laser pointers)	EH&S	Y
Lead	EH&S – notify John Heim	Y
Lead Abatement (construction)	EH&S – notify Rob Connelly	N
Lead Containing Products	EH&S – notify John Heim	Y
Lead Shielding	EH&S – notify John Heim	Y
Leases		N
Loan of Material		Y
Machine tools (e.g. large lathes, etc.)		Y

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ITEM	REFERENCE	DPU Y/N
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, copiers /all in one units/)	Sensitive item	Y
Narcotics, Drugs-Controlled	EH&S	N
Nipple male Schrader quick disconnect ¼" & 3/8"	Approval Herb Toor	Y
Office Equipment Repairs – Typewriters	John Morgan	Y
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
PayPal		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	Y (< \$250 per line item)
Printing services	John Rhodin	N
* Printers	Sensitive item	Y
Printing equipment	Blanket contract	N

ITEM	REFERENCE	DPU Y/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
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
Refurbished Material	Only it material has warranty	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
Rigging Equipment	Facilities Crane/Elevator Office ((Larry Begley) for purchase approval	N
Safety Shoes	EH&S	N
Safety Showers	EH&S	Y
SANR		N
Scales, Industrial (Calibration Certification requirements)		N

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### Miscellaneous Items

ITEM	REFERENCE	DPU Y/N
* Sensitive Items (Cameras, Video Projectors, Printers, Recorders (CD, DVD, Dictating & Video), Video Cameras (TV, Movie & Video), Personal Data Assistants (PDA's, MP3 Player, iPod – hand held computers), Multi-Functional Office Equipment (printers, copiers /all in one units/)	Sensitive item	Y
Services (on-site Berkeley Lab) see On-Site Services SP 28.2		Y
Servers		Y
* Signs containing tritium	EH&S	Y
Slings	Facilities Crane/Elevator Office ((Larry Begley) for purchase approval	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 & Eric Chow	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

ITEM	REFERENCE	DPU Y/N
UC Regents Orders (Intra-University Transactions)		N
Used Material		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	Ted Sopher	N

# RESTRICTED ITEMS LIST

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## SPECIAL TREATMENT ITEMS

**ALL ITEMS ON THE RESTRICTED ITEM LIST ARE RESTRICTED FROM B2B BUYING. Items purchased through the eBay application are automatically routed to the designated EH&S contacts for approval or review. eBay users must still comply with safety and other requirements associated with the items on this list.**

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

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

6

**(CSA) = California Substance Act**

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February 2012

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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 Oxychloride

#### - 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

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7

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February 2012

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### EH&S – RELATED RESTRICTED ITEMS

#### Engineered Nanomaterials

**Notification:** Larry McLouth ext. 5286

Carbon Nanotubes

TiO<sub>2</sub> (Titanium dioxide) – “nanoscale” TiO<sub>2</sub> only

#### Laboratory Safety Equipment

**Notification:** Laurel Davis ext. 2324

Fume hoods  
Gas cabinets  
Glove boxes

Hoods (for ventilation)  
Laminar airflow hoods

**Approval:** Herb Toor ext. 5918

Noise Reducing Headsets

**Notification:** Herb Toor ext. 5918

Ear Plugs

**Notification:** Larry McLouth ext. 5286

Acid storage cabinets  
Flammable storage cabinets

Corrosive storage cabinets

**Notification:** Laurel Davis ext. 2324

Eyewashes

Safety showers

**Notification:** Eileen Lloyd ext. 6949

BioSafety cabinets

#### Fall Protection Equipment

**Approval:** Matthew Rice ext. 7512

Fall Protection Equipment including: Harnesses, Lifelines, Lanyards (& snap hooks), Anchors, Carabiners

#### HEPA Filter Containing Devices

**Approval:** Heather Madison ext. 7609

HEPA filters and HEPA filter devices

HEPA filtered vacuum cleaners

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### EH&S – RELATED RESTRICTED ITEMS

#### 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.

#### 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/riskgroups> or sometimes the vendor web page (e.g., ATCC at <http://www.atcc.org/CulturesandProducts/TechnicalSupport/HowtoReviveCultures/tabid/695/Default.aspx>).

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### EH&S – RELATED RESTRICTED ITEMS

<b>HHS NON-OVERLAP SELECT AGENTS &amp; TOXINS</b>	<b>USDA HIGH CONSEQUENCE LIVESTOCK PATHOGENS AND TOXINS/ SELECT AGENTS (OVERLAP AGENTS)</b>
<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>	<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>

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### EH&S – RELATED RESTRICTED ITEMS

<b>HIGH CONSEQUENCE LIVESTOCK PATHOGENS AND TOXINS/ SELECT AGENTS (OVERLAP AGENTS)</b>	<b>LISTED PLANT PATHOGENS</b>
<ul style="list-style-type: none"><li>• <i>Bacillus anthracis</i></li><li>• <i>Brucella abortus</i></li><li>• <i>Brucella melitensis</i></li><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>• <i>Liberobacter africanus</i></li><li>• <i>Liberobacter asiaticus</i></li><li>• <i>Peronosclerospora philippinensis</i></li><li>• <i>Phakopsora pachyrhizi</i></li><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>

# RESTRICTED ITEMS LIST

February 2012

## SPECIAL TREATMENT ITEMS

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### Health Hazard and Reactive Gases

**Approval:** Larry McLouth ext. 5286

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 (not including lithium batteries)
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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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