EHS Assistant: Chemical Inventory Users Guide

Why Inventories Must Be Maintained

UI maintains an online chemical inventory system to facilitate federal and state regulatory reporting (ex. Department of Homeland Security; EPA Tier II, Right To Know, etc.). In addition, the system fulfills an agreement with local emergency response agencies, allowing them to access information regarding possible chemical hazards in cases of emergency. The online system that The University of Iowa uses is called EHS Assistant (EHSA).

General System Information

- All chemicals and chemical products should be maintained in the inventory. Biological materials, radioactive materials and office supplies do not need to be maintained in the inventory.
- Accounts, buildings, rooms and user access must be added (and removed) by EHSA Administrative personnel.
- EHSA utilizes each person's own unique University of Iowa hawkID and password to log-in.

Accessing the System

- 1. Go to the Ulowa Environmental Health and Safety Office website.
- 2. Click "Labs" or "Operations".
- 3. Click the link "EHS Assistant Login Page" under Guidelines & Manuals.
- 4. Fill in your hawkID and password.
- 5. Click "Login".
- 6. If you receive the message **"Authentication error- Unable to Bind User: Invalid Credentials"** you have likely entered either your username or password incorrectly. Both username and password are case sensitive.

If you receive the message **"Authentication error- Invalid Credentials"**, contact EHSA administrative personnel to have an account set up within EHSA. If you are certain you already have an account in EHSA, you may have entered an incorrect username and password. Make sure you aren't using old ChemTracker credentials or, if you work in the hospital or COM, make sure that you are using your University hawkID and password, <u>not</u> your hospital ID and password.

Note- messages from EHSA administrative personnel regarding the system will be displayed in the upper right corner of the log-in.



Creating a Shortcut to the Log-in Page

It is recommended you create a shortcut to the log-in page on your desktop rather than a bookmark in your browser.

- 1. To create a shortcut, right-click on your mouse while on the log-in page, before logging-in.
- 2. Select "Create Shortcut" from the menu that appears. This will add a shortcut icon to your desktop. You can then access the website directly by clicking on that icon in the future.



List of PI's/Chemical Owners

Those who work for multiple PI's (also known as Chemical Owners) will see a list of names from which to choose. Those who work for only one PI will skip this step and go directly to the Main Page. Only those PI's to whom you have been authorized will appear in your list of options. For example, if you have been authorized to three PI's, the names of those three PI's will appear in your list but if you work for two PI's, only two PI's will appear in your list.

 Click on the PI (or Chemical Owner) name whose inventory you wish to view. You will be taken to the Main Page for the PI you selected.

ABCD	EFGHIJKLMNOPQF	RSTUVWXY	Ζ
DIVEABH	Divekar, Abhay		
DIXOBRA	Dixon, Bradley		
DODDHAR	Boddapsneni, Harsha Vardhan		
DOEJOHN	Doe, John		
DOMAFRE	Domann, Frederick		

The Main Page

Upon logging-in, and choosing a PI if applicable, you will be brought to the Main page.

- 1. To access the inventory, click "Inventory".
- 2. To access the 60-day chemical review statement, click "Chemical Review Statement".
 - The date of the last time your lab completed the Chemical Review Statement is displayed below the Statement link.
- 3. For those with multiple PI's, if you wish to return to your list of PI options, click "Choose PI".



The Inventory Page

From the Inventory Page you can sort, search and transfer your inventory, make simple edits to chemicals already saved in the inventory and access various reports.

Main N	ain Menu < BACK DOEJOHN Doe, John Log Off									
Curre	ent Inve	entory 🤇	Dispos	ed Inventory Archived Inventory Authorized	Personnel					
					Total #	f of chemi	cals in current inventory: 20			
Item	s Rece	ived/Ord	lered Be	etween						
Item	s Rece	ived/Orc	lered or	1						
All It	tems									
Sho	w me C	Chemica	s where	3						
© Sho	w Cher	nicals by	Locati	on						
Sho	w Cher	nicals by	1st Let	ter						
Sho	w Cher	nicals w	ith Expi	ration Dates						
Sno	w Appe	endix A (.nemica	115						
Add Cr	iemical	Ira	nster	Sa	ave Changes	Reports	} ▼			
Append	dix A li	sted Che	micals	are highlighted in Tan.						
Display	50 🗸	rows pe	r page.							
			<u>Google</u>	Chemical Description	Building Code	Room #	Storage	Total	Quantity per	Units
			MSDS				Location	Containers	Container	
Highlight	Select	Remove	MSDS	5% ACETIC ACID	EHS4	201	flammables	1	1	Gallons : Liquid
			Search				Cabinet- tests	-		
Highlight	Select	Remove	MSDS Search	5)-PPERAZINE 1-(4-AMINO-6 EHS4 201 1 Pounds : Solid						
			<u>u u u u u</u>							
Highlight	Select	Remove	MSDS Search	acetone	EHS4	200	flammables cabinet	1	10	Liters : Liquid
			_		1					

Conducting a Search

Searches can be conducted based on chemical name, formula, location, CAS #, receipt date range, expiration date and others.

- 1. Click the radio button next to your search topic of interest.
- 2. Fill in the search criteria using the drop-down menus and type-able fields that appear.
 - Ex: chemicals with names starting with "amm"
- 3. Click "Show". The search results will appear below.

Main Menu <	BACK	DOEJOHN Doe, Joh	in	
Current Inventor	ry 🔘 Disposed Inventory	Archived Inventory O Au	uthorized Personnel	
 Items Received Items Received All Items Show me Chemica Show Chemica Show Chemica Show Chemica Show Chemica Show Chemica 	I/Ordered Between I/Ordered on nicals where Is by Location Is by 1st Letter Is with Expiration Dates x A Chemicals	Chemical Description -	Total # of chemicals in current Starts with	inventory: 20

Sorting Inventory

You may sort the inventory by clicking on any column heading.

- 1. To sort the entire inventory at once, first click "All Items".
- 2. Click the column heading by which you wish to sort the inventory. One click will sort items into ascending order. A second click will sort the list in reverse order.
 - Ex.: clicking the heading <u>Storage Location</u> will sort all the displayed chemicals in order from A-Z based on their listed storage location. A second click will sort it in Z-A order.

Sho Sho Sho Sho Sho Sho	is Rece tems w me (w Cher w Cher w Cher w Appe	ived/Ord Chemica nicals by nicals by nicals w endix A (lered or Is where y Locati y 1st Let ith Expi Chemica	e on ter ration Dates als					
Add Cl	nemical dix A li	Tra	nsfer	are highlighted in Tan.	ave Changes	Reports	Ş	•	•
Display	50 -	rows pe	er page.						
			Google MSDS	Chemical Description	Building Code	Room #	Storage Location	<u>Total</u> <u>Containers</u>	Quantity per Container
Highlight	Select	Remove	MSDS Search	distilled water	EHS4	200	nalgene by sink	1	5
Highlight	Select	Remove	MSDS Search	5% ACETIC ACID	EHS4	201	flammables cabinet- tests	1	1

Editing from the Inventory Page

Three values may be changed on the Inventory Page for items already in the inventory- Total Containers, Quantity per Container and Units.

- 1. Make the necessary changes in the appropriate fields, either by typing in the new value or by using the drop-down menu.
- 2. Click "Save Changes".

Note- You may make multiple changes before clicking "Save Changes" but you <u>must</u> save your changes before moving to another screen or your changes will be lost.

are highlighted in Tan.	ave Changes	Report	S	•]	
Chemical Description	Building Code	Room #	Storage Location	<u>Total</u> Containers	Quantity per Container	Units
distilled water	EHS4	200	nalgene by sink	1	5	Liters : Liquid 🗸
5% ACETIC ACID	EHS4	201	flammables cabinet- tests	1	1	Gallons : Liquid
methanol	EHS4	200	flammables cabinet	1	20	Liters : Liquid 🗸

Inventory Reports

The system provides a means of downloading your inventory into both Excel and PDF formats. Seven different reports are available.

- 1. Click on the report of interest from the drop-down menu.
- 2. Depending on your computer and/or browser's security settings, you may need to disable your browser's pop-up blocker or permit downloads.
- 3. Your report will open automatically in Adobe or Excel.

Add Cl	Add Chemical Transfer Save ChangesReports					s 🔻			
Appendix A listed Chemicals are highlighted in Tan.									
Display	50 •	rows pe	er page.			Chemica	Catalog Fact Sheet Highlighted Chemic		
			Google MSDS	Chemical Description	Building Code	Chemical Chemical Chemical	Inventory Audit Inventory- Alphabetically Inventory- Alphabetically by Room	<u>Total</u> Containers	Quantity per Container
<u>Highlight</u>	Select	Remove	MSDS Search	5% ACETIC ACID	EHS4	Chemical Chemical	Inventory- Alphabetically by Storage Lo Inventory- Expiration Dates	1	1
Highlight	Select	Remove	MSDS Search	(RS)-PIPERAZINE 1-(4-AMINO-6	EHS4	201		1	1

MSDS Access

The EHSA system provides access to MSDS's for the chemicals in your inventory. The system will conduct a Google search for MSDS's based on the chemical description and vendor listed for any particular chemical.

			Google MSDS	Chemical Description
Highlight	Select	Remove	MSDS Search	distilled water
Highlight	Select	Remove	MSDS Search	5% ACETIC ACID
Highlight	Select	Remove	MSDS Search	methanol

- 1. Click "MSDS Search".
- 2. A new window will open, displaying the Google search results.

Note- alternate MSDS location information can be stored in an individual chemical's "Supplemental Chemical Information" on the Add/Edit page.

Adding a Chemical

Anytime you purchase a chemical or take possession of a chemical from another lab, you need to add it into the inventory.

- 1. On the Inventory page, click "Add Chemical". You will be taken to the Add page.
- Fields in the pink box are required and must be completed. All other fields (those in gray) are optional but we encourage you to fill in as much information as possible. Please enter the CAS # whenever possible.

4	Add Chemical Transfer Appendix A listed Chemicals are highlighted
	Display 50 ▼ rows per page.

Adding Chemical	
Search Catalog Not In Catalog Inventory # 0127107	Additional CAS Numbers
Search By Chemical Description	Cas # Chemical Description
Required Fields	
Chemical Description 0 CAS #	
Total Containers Quantity per Container Units	
Physical State	
Building Name 🧳 last	
Room #	
Supplemental Chemical Information Vendor Information	
Type of Container No Selection Vendor	
Storage Location 0 last PO #	
MAX On Hand Lot #	
Chemical Formula Catalog # 🚺	
Molecular Weight Order Date	
MSDS URL Find MSDS online Receipt Date 3/14/2012	
last Open Date 🔻	
View MSDS Expiration Date	
Contact Information/Comments	
Contact () last Contact's Phone	
Contact E-Mail	
Comments	
*	

Note- on the Add page, clicking on any information *v* button will provide you with a menu of saved information.

Note- EHSA is equipped with a catalog of thousands of common chemicals and chemical products. By using the chemical catalog, many fields can be auto-filled for you. An auto-search of the catalog can be

accessed at the top of the page, or a detailed search can be accessed by clicking the *v* next to the Chemical Description or CAS# fields.

- 3. To search the chemical catalog, begin typing the name of the chemical in the "Search By Chemical Description" field or the CAS# in the "Search By CAS#" field at the top of the page.
- 4. A drop-down list of matching chemicals will be displayed.
- 5. Click on the appropriate chemical listing. The chemical description and any other saved information regarding that chemical will be inputted into the corresponding fields.
 - If the chemical you wish to enter is not in the chemical catalog, click "Not in Catalog" and then type in the necessary information by hand.

		Adding	Chemical					
🖲 Search Catalog 🔘 Not In Cata	log	Inventory # 0127711			Add CA	S #		
Search by CAS #								
Search By Chemical Description	cyanom						<u>Cas #</u>	
Required Fields			Cancel					
Chemical Description	CAS #	Chemical Description	Catalog #	Vendor				
Total Con	75-05-8	OVANON TETLANE		Sigma-Aldrich				
	75-05-8	CYANOMETHANE		Dupont				
Physical State	75-05-8 75-05-8 75-05-8	CYANOMETHANE CYANOMETHANE CYANOMETHANE		Sigma-Aldrich				
Building Name	107-16-4	CYANOMETHANOL		orgina i hanon				
Room #								
Supplemental Chemical Inforr	mation	Vendor Inform	nation					
Type of Container No Selec	tion	 Vendor 		0				

- 6. Once you select Units from the drop-down menu, the appropriate physical state will also be filled into the Physical State field.
- 7. For the Building Name and Room # fields, you must click the *O* next to the Building field.
- 8. A menu of authorized rooms will appear. Click "Select" for the room where the chemical will be stored. The building and room will then be automatically filled into the Bldg/Room fields on the Add page.
 - If the needed room is not displayed in the list then that room has not yet been authorized to your account. Contact an EHSA administrator to have the room added to your account.

Pick a lab I or	inked to the PI Pick from All Labs	Search Type			
Location		✓ Starts with ▼	3		
	Location	Building Name		Lab/Room	Permit Number
Select	EHS4:200	Environmental Health and Safety Office No.4		200	C-DOEJOHN
Select	EHS4:201	Environmental Health and Safety Office No.4		201	C-DOEJOHN
Select	EHS4:202	Environmental Health and Safety Office No.4		202	C-DOEJOHN

- 9. Continue to fill in as many of the remaining fields as possible.
- 10. When you are finished entering data, click "Save/Return" or "Save & Add Another Chemical". Or, if necessary for whatever reason, click "Cancel".

Contact E-Mail	
Comments	A
	v.
Save & A	dd Another Chemical Save/Return Cancel

11. If you indicated you have multiple units of the same item (for example, two 4-Liter bottles of acetic acid), the system will ask you if you wish to have the items displayed individually or collectively.

You have entered "2" for # of	Units.
Hit the "Yes" button if you wo	JId like to add 2 separate inventory items.
Hit the "No" button to enter ju	st one inventory item.
Yes	No

Detailed Chemical Search

A more detailed chemical search page can be accessed by clicking the *v* next to "Chemical Description" or next to "CAS #". You will be taken to the Chemical Catalog detailed search page.

- 1. Click the radio button next to the search topic of interest and, if applicable, select the appropriate item from the drop-down menus. If needed, type in what you wish to find.
- 2. Click "Show".
- 3. You may sort results by clicking on the column headings of the results.
- 4. Click on the appropriate chemical listing and the system will fill the information into the corresponding fields back on the Add Chemical screen.

Chemical Catalog				
Show me Chemicals where V how me Chemicals where Show me Chemicals that are Show me Chemicals that are Show me Chemical Description	Vendor is No Sel Chemical Descripti e in my "Personal Ca Appendix A Listed	ection on ▼ Starts with atalog" (previously red	• cyanom ceived)	Show
6 Found	. Click the Chemical	's CAS# or Description	n to select it.	
CAS # Chemical Description	<u>Catalog #</u>	<u>Expir</u> <u>Vendor Per</u> (mon	<u>ation</u> <u>Molecular</u> <u>iod Weight</u> <u>(ths)</u>	<u>Chemical Formula</u>
75-05-8 CYANOMETHANE		Sigma-Aldrich	41.05000	C2H3N
75-05-8 CYANOMETHANE		Dupont	41.05000	C2H3N
75-05-8 CYANOMETHANE			41.05000	C2H3N

Deleting Chemicals

- 1. On the Inventory page, click "Remove" in the row of the item you wish to discard.
- You will be asked the reason for deletion. Select a reason from the drop-down menu.
- 3. Click "Ok".

Reactivating Deleted Chemicals

You may re-activate chemicals you have previously deleted from the inventory.

- On the Inventory page, click the radio button by "Disposed Inventory".
- 2. Click "Activate" by the chemical you wish to restore into the current inventory.
- Disposed inventory will be archived periodically. The archived inventory may be viewed by clicking "Archived Inventory".

Display	50 -	rows pe	er page.	
			Google MSDS	Chemical Description
<u>Highlight</u>	Select	Remove	MSDS Search	distilled water
Highlight	Select	Remove	MSDS Search	5% ACETIC ACID



Add Chemical Transfer				
Appen	dix A li	sted Chemicals are highligh	ted in Ta	an.
Display	50 -	rows per page.		
			Google MSDS	<u>Ch</u>
Highlight	Select	Activate	MSDS Search	acetone
Highlight	Selec	Activate	MSDS Search	ammonium hydroxide

Combining Inventories

 Those working with multiple Pl's may combine inventories by clicking "Authorized Personnel".



Transferring Chemicals

1. To transfer chemicals between rooms, bring up the inventory of the room you wish to transfer **from** by clicking the radio button next to "Show Chemicals by Location" and selecting the appropriate room from the drop-down menu that appears.

O All Items	
 Show me Chemicals where Show Chemicals by Location Show Chemicals by 1st Letter Show Chemicals with Expiration Dates 	No Selection Show
Show Appendix A Chemicals	Environmental Health and Safety Office No.4 : 202 (5)
Add Chemical Transfer	Save ChangesReports

- 2. Once the inventory appears below, click "Transfer".
- 3. A transfer box will appear. Click the 🕖.
- 4. A list of approved rooms will appear. Chose the room to which you wish to move the chemical(s). The room will then be filled into the field for you. If the room into which you wish to move the chemicals does not appear in the list of approved rooms that indicates your account has not been authorized for that particular room. Contact an EHSA administrator to have the room added to your list of locations.
- 5. Click the appropriate radio box to indicate whether you wish to transfer only the selected chemical (highlighted in green) or all chemicals from the original room to the other room.
- 6. Click "Ok".

Ourrent Inventor	ry Disposed Inventory Archived Inventory Authorized Personnel
	Total # of chemicals in current inventory: 20
Items Received	/Ordered Between
Items Received	Ordered on
All Items	Transfer From:
Show me Chen	Lab EHS4:201 Environmental Health and Safety Office No.4: 201
Show Chemica	
Show Chemica	
Show Chemica	Transfer To:
Show Appendix	
Add Chemical	Transfer Selected Inventory Record Only
Appendix A listed	Transfer All
Display 50 🔻 rov	Records with
	Lab Ok Cancel Total (Environmental Oc Containers
Highlight Select Rem	MSDS Search 5% ACETIC ACID EHS4 201 flammables cabinet- tests 1

60-Day Signature

Every 60 days you will be asked to verify the content of your lab's chemical inventory to facilitate Department of Homeland Security reporting requirements.

- 1. After making any needed updates to the inventory, on the Main page, click "Chemical Review Statement".
- 2. The name of the PI (or Chemical Owner) should be displayed in the "Inventory Reviewed By" field.



Note- Although someone other than the PI may be completing the update and review of the inventory, those users authorized to update the inventory are acting as proxies for the PI and the PI remains the ultimately responsible party.

- 3. Click the drop-down button on the Date field to select the appropriate date.
- 4. Click "Submit".

Chemical Review Statement
The Inventory for the Chemical Owner/PI listed below has been updated as required, to meet UI regulatory and emergency response needs.
Inventory Reviewed By Doe, John Date 12/14/2011
Submit Cancel

Logging-out

1. When you are finished in the program, click "Log Off".

Log Off	Doe. John	Log Off
ourrent inventory: 19	CHEM	
current inventory. 15		

Frequently Asked Questions

- Can I use EHSA on a Mac computer?
 - Yes, EHSA works on both PC's and Mac's.
- Can I use EHSA on browsers other than Internet Explorer?
 - Yes, EHSA also works on Firefox, Safari and Chrome.
- Can I access EHSA off-campus?
 - If you have been authorized to remote log-in to a campus computer, you can access EHSA while off campus; otherwise you cannot access EHSA off-campus.
- <u>I bookmarked the Log-in website in my browser. Now I see a message about restarting the</u> application. What do I do?
 - This happens because the inventory system is accessed through an Internet browser but is not actually an Internet website.
 - Click "Restart the application" to access the log-in page.
 - To avoid seeing this message in the future, create a shortcut on your desktop rather than a bookmark/favorite in your browser.
- Are read-only accounts available?
 - Yes, read-only accounts can be created at the request of the PI/Chemical Owner.
- Our lab has made significant changes to our inventory. Is there a faster way to update our inventory in EHSA?

- You may send an Excel file of your inventory to EHSA administrative personnel for uploading into EHSA. Excel files can be uploaded to completely replace or add onto the inventory already in EHSA.
- If you have an inventory already in EHSA, it is recommended that you download your current inventory via the report feature. Make all changes to that downloaded Excel and then send a copy of that Excel to EHSA administrative personnel to have it uploaded. This will preserve as much information as possible without requiring you to re-type in the information.
- If you are new to EHSA, contact EHSA administrative personnel to obtain the proper Excel template.
- My lab has moved. How do I get the pre-saved building/rooms in our account changed?
 - The EHSA administrators must make this change. Send them an e-mail that lists the name of your PI and what new buildings and rooms you need added to your account.
 - You may also request that the administrators transfer your inventory in bulk to the new rooms.
- Who can access my EHSA inventory?
 - Pl's or Chemical Owners are automatically given access to their own inventory.
 - Personnel within a PI's lab may be granted access to the inventory account upon request, with permission from the PI.
 - Users may be added or removed at any time.
 - Access must be set-up by the EHSA administrators. To request access, e-mail the name of the person needing access, the type of access needed (modify-rights or read-only) and the Pl's inventory to which they need access to the EHSA administrators.
 - In addition, Coralville and Iowa City first-responders have read-only access to inventories for emergency situations.
- How do I add or remove people who have access to my inventory?
 - Chemical Owners/PI's should contact EHSA administrative personnel to request access for new employees or to have departed employees removed from their account.
 - Each PI or Chemical Owner should periodically check to see if the list of workers associated with them in the ESHA database is accurate.
- How can I ensure good quality inventory data?
 - When adding a chemical, use the chemical catalog to select a chemical name whenever possible. This will minimize data entry spelling errors and duplicate entries and allow for easier searches.
 - Enter a CAS# whenever possible.
 - Fill in as many information fields as possible.
 - If you cannot find the chemical you wish to enter in the chemical catalog, please e-mail an EHSA administrator so that the chemical can be added into the catalog. In your e-mail, please include the chemical/product name and the CAS# (or the vendor, if it is a product).
- I cannot find the chemical I wish to enter in the chemical catalog. What should I do?
 - Please e-mail an EHSA administrator the chemical/product name and the CAS# (or the vendor, if it is a product). They will add the chemical into the catalog.
- My inventory quantities change all the time. What quantities do I enter?
 - You may enter the volume of the full original container even if partially used.

- Ex: A 500-g bottle of NaCl may be listed as 500-g even if there are only 478-g (or 203-g, etc.) in the bottle.
- You may enter a constant-stock volume.
 - Ex: If your lab uses 6 containers of ether every month, you can keep a standard entry of 6 containers in your inventory. You do not need to add and subtract every bottle as they are purchased and used.
 - If there is a significant change in your constant-stock quantity, up or down, put that change into the inventory.
- For tanks and other large chemical storage containers, contact Laurie Taylor (5-8031) or Rick Byrum (5-9379) regarding inventory quantities.
- How do I comply with the bimonthly requests from EHS to update my chemical inventory for DHS
 <u>COI purposes?</u>
 - After making any necessary changes to your inventory, select the "Chemical Review Statement" link from the EHSA main menu. Provide the appropriate information and click the Submit button to complete the update.
- <u>How do I enter kits into the inventory?</u>
 - Kits with hazardous components should be listed by components. The kit packaging will list the mass and/or volumes of each component.
- How do I calculate the volume of my compressed gas tank?
 - Volumes of cylinders may be found at the supplier's website. Praxair is currently the campus supplier of gas cylinders. Their website for cylinder specifications is: http://www.praxairdirect.com/Gases/10152 10051 11508 -1 11502 11502 image 0
 - All gases must be listed in units of cubic feet, liters or pounds.
- Who do I contact with questions about EHS Assistant?
 - Contact the EHSA administrators for assistance.
 - Rachelle Justice (<u>rachelle-justice@uiowa.edu</u>; 3-4692) can assist with general ESHA issues as well as provide support for research areas.
 - Laurie Taylor (<u>laurie-taylor@uiowa.edu</u>; 5-8031) can assist with DHS COI and DNR Tier II chemical tracking issues as well as provide support for non-research areas.
- What needs to be included in the chemical inventory?
 - All hazardous chemicals, as defined by federal regulations, need to be included in the inventory.
 - A general rule of thumb is that if it has an MSDS, it needs to go into the inventory.

Examples of Items Required to be in the	Examples of Items Not Required to be in the	
Inventory:	Inventory:	
Flammable/Combustible liquids	 Reagent working solutions that are used 	
Flammable solids	within 1-2 days	
Compressed gas cylinders (including	Radioactive materials	
compressed air)	Biological materials	
Controlled substances	Non-hazardous buffers	
Corrosives	Growth media	
• DHS chemicals of interest (COI)	Enzyme preparations	
Diesel fuel	 Office supplies (markers, paper, etc.) 	
Toxic or poisonous chemicals	 Lab supplies (gloves, Kim wipes, etc.) 	

Liquefied gases	
Liquelleu gases	
Gasoline and Kerosene	
Lubricants	
Paints	
• Oil	
Reactive or unstable materials	
Refrigerants	
Solid chemical reagents	
Solvents	
Scintillation fluids	
Tier II reportable chemicals	