

DHS Quarterly Survey Fact Sheet

What is DHS?

Department of Homeland Security

What is COI?

DHS Chemical of Interest

Does my lab have to maintain an inventory of chemicals?

Yes, current Chemical Hygiene plan requirements specify that each Department Lab or Center (DLC) covered by the Chemical Hygiene Plan must have an inventory of chemicals. MIT has a web-based chemical inventory system called ChemTracker that is available at no charge for labs to use for this purpose, though its use is not required. For more information please contact the EHS Office at 2-3477 or email environment@mit.edu

Ongoing DHS Reporting Requirements

- On November 20, 2007 the Department of Homeland Security finalized Appendix A of the Chemical Facility Anti-Terrorism Standards (CFATS) that now makes all provisions of 6 CFR Part 27 operative and in effect. The list of "Chemicals of Interest" now includes 325 Chemicals.
- On February 1, 2008, MIT labs completed their first chemical inventory report on DHS COIs being used in their labs. From this, MIT EHS Office submitted a report for any DHS COIs that exceeded the specified Threshold Value.
- On an ongoing basis, MIT must report to DHS when it exceeds the Threshold Value for any chemical.
- MIT's Committee on Toxic Chemicals has determined that the most effective means of monitoring the presence of 40 COIs with very small threshold values is to conduct quarterly surveys.

How does DHS's ongoing monitoring requirement apply to MIT?

MIT needs to submit an updated report to DHS when any chemical in aggregate amounts exceeds the specified values on the DHS COI list.

All labs using chemicals must respond to quarterly surveys to let EHS Office know whether or not any of the 40 chemicals from the list below are present in the lab. If your lab is currently not using these chemicals but is planning to purchase any please notify your DLC EHS Coordinator and/or your DLC EHS Committee prior to purchasing them or using them in the lab. EHS Office professionals through previous queries, procurement, and disposal data, and through interviews with departmental EHS Coordinators have reduced this list of "COIs" from more than 300 to 40.

DHS Quarterly Survey FAQ

40 DHS Chemicals of Interest with Low Threshold Values:

Chemical of Interest	Synonym	CAS Number
1,4-bis(2-chloroethylthio)-n-butane		142868-93-7
bis(2-chloroethylthio)methane		63869-13-6
bis(2-chloroethylthioethyl)ether		63918-89-8
1,5-bis(2-chloroethylthio)-n-pentane		142868-94-8
1,3-bis(2-chloroethylthio)-n-propane		63905-10-2
2-chloroethylchloromethylsulfide		2625-76-5
Chlorosarin		1445-76-7
Chlorosoman		7040-57-5
DF	Methyl phosphonyl difluoride	676-99-3
N,N-(2-diethylamino)ethanethiol		100-38-9
o,o-Diethyl S-[2-(diethylamino)ethyl] phosphorothiolate		78-53-5
Diethyl methylphosphonate		15715-41-0
N,N-Diethyl phosphoramidic dichloride		1498-54-0
N,N-(2-diisopropylamino)ethanethiol		5842-07-9
N,N-Diisopropyl phosphoramidic dichloride		23306-80-1
N,N-(2-dimethylamino)ethanethiol		108-02-1
N,N-Dimethyl phosphoramidic dichloride		677-43-0
N,N-(2-dipropylamino)ethanethiol		5842-06-8
Ethyl phosphonyl difluoride		753-98-0
Ethylphosphonothioic dichloride		993-43-1
HN1 (nitrogen mustard-1)	Bis(2-chloroethyl)ethylamine	538-07-8
HN2 (nitrogen mustard-2)	Bis(2-chloroethyl)methylamine	51-75-2
HN3 (nitrogen mustard-3)	Tris(2-chloroethyl)amine	555-77-1
Isopropylphosphonothioic dichloride		1498-60-8
Isopropylphosphonyl difluoride		677-42-9
Lewisite 1	2-Chlorovinylidichloroarsine	541-25-3
Lewisite 2	Bis (2-Chlorovinyl)chloroarsine	40334-69-8
Lewisite 3	Tris (2-Chlorovinyl)chloroarsine	40334-70-1
Methylphosphonothiotic dichloride		676-98-2

DHS Quarterly Survey FAQ

Sulfur Mustard (mustard gas (H))	Bis (2-chloroethyl) sulfide	505-60-2
O-Mustard (T)	Bis (2-chlorothioethyl) ether	63918-89-8
Nitrogen mustard hydrochloride	Bis (2-chloroethyl)methylamine hydrochloride	55-86-7
Propylphosphonothioic dichloride		2524-01-8
Propylphosphonyl difluoride		690-14-2
Sarin	o-Isopropyl methylphosphonofluoridate	107-44-8
Sesquimustard	1,2-Bis(2-chloroethylthio) ethane	3563-36-8
Soman	o-Pinacolyl methylphosphonofluoridate	96-64-0
Tabun	o-Ethyl-N,N-dimethylphosphoramido-cyanidate	77-81-6
Thiodiglycol		111-48-8
VX	o-ethyl-S-2-diisopropylaminoethyl methyl phosphonothiolate	50782-69-9