14. Annual Chemical Weapons Declaration

INTRODUCTION

The Chemical Weapons Convention (1993), to which Canada is a signatory, is designed to prevent the proliferation and use of Chemical Weapons, without limiting the use of chemicals for scientific research and advancement. As part of the convention, users of particular chemicals are required to report their use and stores of particular chemicals each January through the “Annual Declaration of Past Activities Involving Chemicals Covered by the Chemical Weapons Convention”. At UBC, these chemicals are reported collectively through Safety & Risk Services (SRS) through UBC Vancouver. The system is managed electronically via email. Researchers have the legal responsibility to report their uses and stores of any chemicals listed. SRS will request information as to whether any of the were consumed, stored, imported or exported "in any amount" over the past year at the Okanagan campus.

You can prepare yourself in advance of this request by tracking the chemicals listed on the following pages.

PROCEDURE

1. Using the attached form, track your contact with any of the chemicals on the Chemical Weapons Convention List.
2. While you should secure all laboratory materials, due to the nature of the chemicals on the Chemical Weapons Convention, you should take extra care to ensure they are safely stored and secure.

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Health, Safety & Environment

University of British Columbia

Department of Health, Safety & Environment

CHEMICAL WEAPONS CONVENTION PAST ACTIVITIES REPORT FOR 20__

Department: _____ Name of Building: _____

Room Number: _____ Principal Investigator: _____

SCHEDULE 1 CHEMICALS

TOXIC CHEMICALS	Location	Quantity Obtained/Stored/Used
O-Alkyl (<=C10, incl. cycloalkyl) alkyl (Me, Et, n-Pr or i-Pr) – phosphonofluoridates, Sarin: O-Isopropyl methylphosphonofluoridate (CAS 107-44-8) Soman: O-Pinacolyl methylphosphonofluoridate (CAS 96-64-0)		
O-Alkyl (<=C10, incl. cycloalkyl) N, N-dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidocyanidates Tabun: O-Ethyl N, N-dimethyl phosphoramido/cyanidate (CAS 77-81-6)		
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 VX: O-Ethyl S-2-diisopropylaminoethyl methyl phosphonothiolate (CAS 50782-69-9)		
Sulphur Mustards: **2-Chloroethylchloromethylsulfide (CAS 2625-76-5)**		
Mustard gas: Bis (2-chloroethyl) sulfide (CAS 505-60-2)		
Bis (2-chloroethylthio)methane (CAS 63869-13-6)		
Sesquimustard: 1, 2-Bis (2-chloroethylthio) ethane (CAS 3563-36-8)		
1, 3-Bis (2-chloroethylthio) -n-propane (CAS 63905-10-2)		
1, 4-Bis (2-chloroethylthio) -n-butane (CAS 142868-93-7)		
1, 5-Bis (2-chloroethylthio) -n-pentane (CAS 142868-94-8)		
Bis (2-chloroethylthiomethyl) ether (CAS 63918-90-1)		
O-Mustard: Bis (2-chloroethylthioethyl) ether (CAS 63918-89-8)		
Lewisites: **Lewisite 1: 2-Chlorovinyldichloroarsine (CAS 541-25-3)**		
Lewisite 2: Bis (2-chlorovinyl) chloroarsine (CAS 40334-69-8)		
Lewisite 3: Tris (2-chlorovinyl) arsine (CAS 40334-70-1)		

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Nitrogen mustards : HN1: Bis (2-chloroethyl) ethylamine (CAS 538-07-8) HN2: Bis (2-chloroethyl methylamine (CAS 51-75-2) HN3: Tris (2-chloroethyl) amine (CAS 555-77-1)		
Saxitoxin (CAS 35523-89-8)		
Ricin (CAS 9009-86-3)		
PRECURSORS	**Location**	**Quantity Obtained/Stored/Used**
Alkyl (Me, Et, n-Pr or i-Pr) phosphonyldifluorides DF: Methylphosphonyldiflouride (CAS 676-99-3)		
O-Alkyl (H or <=C10, incl. cycloalkyl) 0-2-dialkyl (Me, Et, n-Pr or i-Pr) aminoethyl alkyl (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 (CAS 57856-11-8)		
Chlorosarin: O-Isopropyl methylphosphonochloridate (CAS 1445-76-7)		
Chlorosoman: O-Pinacolyl methylphosphonochloridate (CAS 7040-57-5)		

SCHEDULE 2 CHEMICALS

TOXIC CHEMICALS	**Location**	**Quantity Obtained/Stored/Used**
Amiton: O, O-Diethyl S- {2- (diethylamino)ethyl} phosphorothiolate, and corresponding alkylated or protonated salts (CAS 78-53-5)		
PFIB: 1, 1, 3, 3, 3-Pentafluoro-2- (trifluoromethyl) -1-propene (CAS 382-21-8) (382-21-8)		
BZ: 3-Quinuclidinyl benzilate (CAS 6581-06-2)		

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PRECURSORS	**Location**	**Quantity Obtained/Stored/Used**
Chemicals, except for those in Schedule 1, containing a phosphorous atom to which is bonded one methyl, ethyl or propyl (normal or iso) group, but not further carbon atoms: Methylphosphonyl dichloride (CAS 676-97-1) Dimethyl methylphosphonate (CAS 756-79-6) Fonofos:O-Ethyl S-phenyl Ethylphosphonothiolothionate (CAS 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 (CAS 7784-34-1)		
2,2- Diphenyl-2-hydroxyacetic acid (CAS 76-93-7)		
Quinuclidin-3-ol (CAS 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. N, N-Dimethylaminoethanol and corresponding protonated salts (CAS 108-01-0) N, N-Diethylaminoethanol and corresponding protonated salts (CAS 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 (CAS 111-48-8)		
Pinacolyl alcohol: 3,3-dimethylbutane-2-ol (CAS 464-07-3)		

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SCHEDULE 3 CHEMICALS

TOXIC CHEMICALS	Location	Quantity Obtained/Stored/Used
Phosgene: Carbonyl dichloride (CAS 75-44-5)		
Cyanogen chloride (CAS 506-77-4)		
Hydrogen cyanide (CAS 74-90-8)		
Chlorpicrin: Trichloronitromethane (CAS 76-06-2)		
PRECURSORS	**Location**	**Quantity Obtained/Stored/Used**
Phosphorus oxychloride (CAS 10025-87-3)		
Phosphorus trichloride (CAS 7719-12-2)		
Phosphorus pentachloride (CAS 10026-13-8)		
Trimethyl phosphite (CAS 121-45-9)		
Triethyl phosphite (CAS 122-52-1)		
Dimethyl phosphite (CAS 868-85-9)		
Diethyl phosphite (CAS 762-04-9)		
Sulphur monochloride (CAS 10025-67-9)		
Sulphur dichloride (CAS 10545-99-0)		
Thionyl chloride (CAS 7719-09-7)		
Ethyldiethanolamine (CAS 139-87-7)		
Methyldiethanolamine (CAS 105-59-9)		
Triethanolamine (CAS 102-71-6)		