Chemical Weapons (Convention) Ordinance
Questionnaire for the Initial Declaration

Purpose

The purpose of this questionnaire is to collect information to enable the Government to prepare its initial declaration required to be submitted to the Organization for the Prohibition of Chemical Weapons ("the OPCW"). The information will also enable the Government to know and advise you accordingly whether your facility will be subject to the permit and notification requirements under the Chemical Weapons (Convention) Ordinance.

Points to Note when Completing the Questionnaire

1. Information is required only for facilities and their plants located within the HKSAR.

2. 1 tonne is equal to 1,000 kg.

3. The questionnaire should be returned to the Trade and Industry Department by fax (fax no. 2396 3070), by mail or in person to Rm 516B, Strategic Trade Controls Branch, Trade and Industry Department Tower, 700 Nathan Road, Kowloon.

4. ALL facilities should complete and return Part A of this questionnaire (Page 1 – 2) **by 1 December 2003**.

5. For those facilities which also need to complete Part B of the questionnaire, please return the relevant Section(s) in Part B **by 12 January 2004**. If the space provided for an answer is not sufficient, please make a copy of the relevant pages, fill in the information and attach the extra page(s) to the questionnaire. Please mark the total number of pages of your return, including the attachments, at the end of Page 3.

6. For enquiries on :

   (a) how to complete this questionnaire, please contact Miss Annie Loong, Assistant Trade Officer or Ms Connie Ho, Licensing Officer of the Trade and Industry Department at telephone no. 2398 5670 or 2398 5625;

   (b) the meaning of technical terms used in this questionnaire, please contact Mr C Y Au Yeung, Senior Chemist or Miss Patricia Chan, Chemist of the Government Laboratory at telephone no. 2762 3893 or 2762 3889 respectively.

Chemical Weapons (Convention) Ordinance
Questionnaire for the Initial Declaration

Part A : General Activities of Your Facility

Particulars of Your Facility (*Note 1)*
(including all plant sites and plants of your facility, where applicable)

Name :

Address :

Tel no. and Fax no :

Name of Owner/Operating Company/Enterprise :

Name of Contact Person (for the purpose of this questionnaire) **:**

Position/Post Title of the Contact Person :

Business Type (e.g. laboratory, manufacturer, trading company, etc) **:**

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(1) Did your facility handle any Schedule 1, 2 and/or 3 Chemicals listed at Annex I and/or Unscheduled Discrete Organic Chemicals (UDOCs) *(Note 3)* during 2001 – 2003 or expect to handle them in 2004? Please "✓" :

		Scheduled Chemicals (See Annex I)			**UDOCs** (Note 3)
		Schedule 1	**Schedule 2**	**Schedule 3**	
YES	**2001**				
	2002				
	2003				
	2004				
NO	**2001 – 2004** (any year in between)				

Important : NO need to continue with this questionnaire unless there is a "✓" in any of the shaded boxes above.

(2) What were the activities *(Note 2)* performed at your facility for the Scheduled Chemicals and/or the UDOCs? Please "✓" :

	Scheduled Chemicals (See Annex I)			**UDOCs** (Note 3)
	Schedule 1 (2003)	**Schedule 2 (2001-2003)**	**Schedule 3 (2003)**	**(2003)**
Production	(a)	(e)	(h)	(i)
Processing	(b)	(f)		
Consumption	(c)	(g)		
Others (e.g. import/export, acquisition, storage and transfer)	(d)			

Important : NO need to continue with this questionnaire unless there is a "✓" in any of the shaded boxes above.

(3) See in which of the shaded boxes [i.e. (a) – (i)] in Question 2 above you have put a "✓". Then follow the instructions below and return the relevant Section(s) to us by 12 January 2004 :

Shaded boxes with "✓" in Question 2	**The part(s) of this questionnaire you need to complete**
(a), (b), (c) and/or (d)	Part B, Section I
(e), (f) and/or (g)	Part B, Section II
(h)	Part B, Section III
(i)	Part B, Section IV

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End of Part A

Part B : Scheduled Chemicals and UDOCs

Part B is divided into four sections as follows:
Section I – Schedule 1 chemicals
Section II – Schedule 2 chemicals
Section III – Schedule 3 chemicals
Section IV – UDOCs.

After filling in the particulars of your facility below, answer only those Sections relevant to the activities of your facility.

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Particulars of Your Facility (*Note 1)*
(including all plant sites and plants of your facility, where applicable)

Name :

Address :

Tel no. and Fax no :

Name of Owner/Operating Company/Enterprise :

Name of Contact Person (for the purpose of this questionnaire) **:**

Position/Post Title of the Contact Person :

Business Type (e.g. laboratory, manufacturer, trading company, etc) **:**

Total number of pages in my reply : _____

Section I. Schedule 1 Chemicals

(1) What activities *(Note 2)* did your facility perform that involve Schedule 1 chemical(s) in 2003? Please "✓" :

Produce	
Process	
Consume	
Acquire	
Transfer	
Store	
Others (please specify)	

(2) What were the purposes of the activities you selected in Question 1? Please "✓" :

Protective *(Note 4)*	
Research / Medical / Pharmaceutical	

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End of Part B, Section I

Section II. Schedule 2 Chemicals

Instruction Box

In this Section, information should be given for each PLANT at your facility *(Note 1)* and for each CHEMICAL in 2001-2003. Please put down the name of your plant and read the instructions below before you proceed :

1. **Name of Plant : _____**
2. **All the answers in this Section should be made for the plant named above and for one Schedule 2 chemical handled in this plant in 2001-2003.**
3. **If more than one Schedule 2 chemical is handled in the above plant, please make photocopy and repeat Questions 5 – 7 for EACH of the additional chemicals.**
4. **If there is more than one plant at your facility, please make photocopies and repeat the whole of Section II i.e. Questions 1 – 7 for EACH of the additional plants. If any of them handled more than one Schedule 2 chemical, please make photocopies and repeat Questions 5 – 7 for each of the additional chemicals handled in each of those additional plants.**

(1) What activities *(Note 2)* did this plant perform that involve Schedule 2 chemical(s)? Please "✓" :

	2001	2002	2003
Production			
Processing			
Consumption			
Import			
Export			
Storage#			
Re-packaging, distribution#			
Research and development#			
Others# (Please specify)			

 # NO need to answer the other questions in Section II if there is no production, processing, consumption, import or export at this plant.

(2) What were the main activities of this plant? See Annex II and mark the Product Group Code(s) :

	2001	2002	2003
Product group codes			

(3) Is it correct to say that this plant did not produce any Schedule 1 chemicals as an unavoidable by-product in an amount exceeding 3% of the total product and did not produce any other chemicals that can be used for chemical weapons purposes? Please "✓" :

	2001	2002	2003
Yes			
No (Please explain)			

(4) Did this plant produce both Schedule 2 and Schedule 3 chemicals in 2003? Please "✓" :

Yes (Please also answer Part B, Section III)	
No	

(5) What Schedule 2 chemical was produced, processed, consumed, imported and/or exported by this plant? What was the quantity involved? Please provide details as requested :

	2001	**2002**	**2003**
Chemical details			
CAS registry number			
IUPAC chemical name			
Common or trade name			
Structural formula	(Please provide on a separate sheet and mark on top "Attachment to Section II, Question 5")		
Activities			
Production	***kg/tonne**	***kg/tonne**	***kg/tonne**
Processing	***kg/tonne**	***kg/tonne**	***kg/tonne**
Consumption	***kg/tonne**	***kg/tonne**	***kg/tonne**
Import	***kg/tonne**	***kg/tonne**	***kg/tonne**
Name of supplying country: (If more than one country, please provide breakdown)			
Export	***kg/tonne**	***kg/tonne**	***kg/tonne**
Name of destination country: (If more than one country, please provide breakdown)			

** Please delete as appropriate*

(6) What were the purposes for which the Schedule 2 chemical (named in Question 5) was produced, processed or consumed in this plant? Please provide details as requested :

	2001	2002	2003
Processing and consumption on site (See Annex II and mark the product group codes)			
Direct export from the plant site (Please specify the destinations)			
Local sale/transfer within HKSAR to (Please "✓" against (a), (b) or (c) :) (a) other industry			
(b) another trader			
(c) others			
The final product type(s) derived from this chemical for each of (a) – (c) above is: (See Annex II and mark the product group codes)			
Other purposes (Please specify)			

(7) What was the production capacity *(Note 5)* of this plant for the Schedule 2 chemical (named in Question 5) and the calculation method *(Note 6)* used to estimate the production capacity of this plant? Please provide details :

	2001	2002	2003
Production capacity	***kg/tonne**	***kg/tonne**	***kg/tonne**
Calculation method	***Nameplate / Design**	***Nameplate / Design**	***Nameplate / Design**

** Please delete as appropriate.*

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End of Part B, Section II

Section III. Schedule 3 Chemicals

Instruction Box

In this Section, information should be given for each PLANT at your facility *(Note 1)* and for each CHEMICAL in 2003. Please put down the name of your plant and read the instructions below before you proceed :

1. **Name of Plant : _____**
2. **All the answers in this Section should be made for the plant named above and for one Schedule 3 chemical handled in this plant in 2003.**
3. **If more than one Schedule 3 chemical is handled in the above plant, please make photocopy and repeat Questions 4 – 5 for EACH of the additional chemicals.**
4. **If there is more than one plant at your facility, please make photocopies and repeat the whole of Section III i.e. Questions 1 – 5 for EACH of the additional plants. If any of them handled more than one Schedule 3 chemical, please make photocopies and repeat Questions 4 – 5 for each of the additional chemicals handled in each of those additional plants.**

(1) What were the main activities of this plant? See Annex II and mark the Product Group Code(s) :

Product group codes :

(2) Is it correct to say that this plant did not produce any Schedule 1 chemicals as an unavoidable by-product in an amount exceeding 3% of the total product and did not produce any other chemicals that can be used for chemical weapons purposes? Please "✓" :

Yes	
No (Please explain)	

(3) Did this plant produce, process or consume both Schedule 2 and Schedule 3 chemicals in 2003? Please "✓" :

Yes (Please also answer Part B, Section II)	
No	

(4) What Schedule 3 chemical was produced in this plant? What was the quantity involved? Please provide details :

CAS registry number	
IUPAC chemical name	
Common or trade name	
Structural formula	(Please provide on a separate sheet and mark on top "Attachment to Section III, Question 4")
Production quantity	***kg/tonne**

** Please delete as appropriate*

(5) What were the purposes for producing the Schedule 3 chemical (named in Question 4) in this plant? Please "✓" :

In-line consumption as produced (captive use)	
Synthetic intermediate stored and/or used on site	
Transfer to other industry	

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End of Part B, Section III

Section IV. Unscheduled Discrete Organic Chemicals (UDOCs)

Instruction Box

In this Section, information should be given for each PLANT at your facility *(Note 1)* in 2003. Please put down the name of your plant and read the instructions below before you proceed :

1. **Name of Plant : _____**
2. **All the answers in this Section should be made for the plant named above and for the UDOCs handled in this plant in 2003.**
3. **If there is more than one plant at your facility, please make photocopies and repeat the whole of Section IV i.e. Questions 1 – 4 for EACH of the additional plants.**

(1) What was the quantity of UDOCs *(Note 3)*, including PSF-chemicals *(Note 7)* produced at this plant? Please "✓" :

Below 200 tonnes	
200 to below 1,000 tonnes	
1,000 to 10,000 tonnes	
Above 10,000 tonnes	

(2) Did this plant produce any PSF-chemicals *(Note 7)*? Please "✓" :

Yes, the quantity was :	
30 tonnes or below	
above 30 and below 200 tonnes	
200 to below 1,000 tonnes	
1,000 to 10,000 tonnes	
above 10,000 tonnes	
No	

(3) What were the main activities of this plant? See Annex II and mark the Product Group Code(s) :

Product group codes:

(4) Is it correct to say that this plant did not produce any Schedule 1 chemicals as an unavoidable by-product in an amount exceeding 3% of the total product and did not produce any other chemicals that can be used for chemical weapons purposes? Please "✓" :

Yes	
No (Please explain)	

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End of Questionnaire

Notes

(1) "Facility" means any "plant site", "plant" or "unit":

(a) "Plant Site" means the local integration of one or more plants, with any intermediate administrative levels, which are under one operational control, including any -

(i) administration and other offices;
(ii) repair and maintenance shops;
(iii) medical centre;
(iv) utilities;
(v) central analytical laboratory;
(vi) research and development laboratories;
(vii) central effluent and waste treatment area; and
(viii) warehouse storage.

(b) "Plant" means a relatively self-contained area, structure or building containing one or more units with auxiliary and associated infrastructure, including any -

(i) small administrative section;
(ii) storage or handling areas for feedstock and products;
(iii) effluent or waste handling or treatment area;
(iv) control or analytical laboratory;
(v) first aid service or related medical section; and
(vi) records associated with the movement into, around and from the area, of declared chemicals and their feedstock or product chemicals formed from them, as appropriate.

(c) "Unit" means the combination of those items of equipment, including vessels and vessel set up, necessary for the production, processing or consumption of a chemical.

(2) "Activities" in this questionnaire –

(a) "Production" of a chemical means its formation through chemical reaction;
(b) "Processing" of a chemical means a physical process, such as formulation, extraction and purification, in which a chemical is not converted into another chemical;
(c) "Consumption" of a chemical means its conversion into another chemical via a chemical reaction.

(3) "UDOCs" is "Unscheduled Discrete Organic Chemicals", which mean Discrete Organic Chemical not listed in Schedule 1, 2 or 3 of the Chemical Weapons Convention. "Discrete Organic Chemical" is any chemical belonging to the class of chemical compounds consisting of all compounds of carbon except for its oxides, sulfides and metal carbonates; and identifiable by chemical name; structural formula, if known; and Chemical Abstracts Service (CAS) registry number, if assigned.

(4) "Protective purposes" is defined as purposes directly related to protection against toxic chemicals and to protection against chemical weapons.

(5) "Production Capacity" is defined as the annual quantitative potential for manufacturing a specific chemical based on the technological process actually used or, if the process is not yet operational, planned to be used at the relevant facility. The production capacity shall be deemed to be equal to the nameplate capacity or, if the nameplate capacity is not available, to the design capacity.

(6) For the purpose of this questionnaire, nameplate capacity is the product output under conditions optimized for maximum quantity for the production facility, as demonstrated by one or more test runs. The design capacity is the corresponding theoretically calculated product output, without test data or other supportive plant specific information.

(7) "PSF-chemicals" is "Unscheduled Discrete Organic Chemicals (UDOCs)" containing the elements phosphorus, sulfur or fluorine.

Scheduled Chemicals under the Chemical Weapons (Convention) Ordinance

The following are chemicals controlled by the Chemical Weapons (Convention) Ordinance. They fall under Schedules 1,2 and 3 of the Chemical Weapons Convention.

SCHEDULE 1

		(CAS registry number)
A.	Toxic chemicals :	
(1)	O-Alkyl ($\leq C_{10}$, incl. cycloalkyl) alkyl (Me, Et, n-Pr or i-Pr)-phosphonofluoridates	
	e.g. Sarin : O-Isopropyl methylphosphonofluoridate	(107-44-8)
	Soman : O-Pinacolyl methylphosphonofluoridate	(96-64-0)
(2)	O-Alkyl ($\leq C_{10}$, incl. cycloalkyl) N,N-dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidocyanidates	
	e.g. Tabun : O-Ethyl N,N-dimethyl phosphoramidocyanidate	(77-81-6)
(3)	O-Alkyl (H or $\leq C_{10}$, 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	
	e.g. VX : O-Ethyl S-2-diisopropylaminoethyl methyl phosphonothiolate	(50782-69-9)
(4)	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)
(5)	Lewisites :	
	Lewisite 1 : 2-Chlorovinyldichloroarsine	(541-25-3)
	Lewisite 2 : Bis(2-chlorovinyl)chloroarsine	(40334-69-8)
	Lewisite 3 : Tris(2-chlorovinyl)arsine	(40334-70-1)
(6)	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)
(7)	Saxitoxin	(35523-89-8)
(8)	Ricin	(9009-86-3)
B.	Precursors :	
(9)	Alkyl (Me, Et, n-Pr or i-Pr) phosphonyldifluorides	
	e.g. DF : Methylphosphonyldifluoride	(676-99-3)
(10)	O-Alkyl (H or $\leq C_{10}$, 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	
	e.g. QL : O-Ethyl O-2-diisopropylaminoethyl methylphosphonite	(57856-11-8)
(11)	Chlorosarin : O-Isopropyl methylphosphonochloridate	(1445-76-7)
(12)	Chlorosoman : O-Pinacolyl methylphosphonochloridate	(7040-57-5)

SCHEDULE 2

A. Toxic chemicals:

(1)	Amiton :	O,O-Diethyl S-[2-(diethylamino)ethyl] phosphorothiolate and corresponding alkylated or protonated salts	(78-53-5)
(2)	PFIB :	1,1,3,3,3-Pentafluoro-2-(trifluoromethyl)-1-propene	(382-21-8)
(3)	BZ :	3-Quinuclidinyl benzilate (*)	(6581-06-2)

B. Precursors:

(4)	Chemicals, except for those listed in Schedule 1, containing a phosphorus atom to which is bonded one methyl, ethyl or propyl (normal or iso) group but not further carbon atoms,	
	e.g. Methylphosphonyl dichloride	(676-97-1)
	Dimethyl methylphosphonate	(756-79-6)
	Exemption : Fonofos : O-Ethyl S-phenyl ethylphosphonothiolothionate	(944-22-9)
(5)	N,N-Dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidic dihalides	
(6)	Dialkyl (Me, Et, n-Pr or i-Pr) N,N-dialkyl (Me, Et, n-Pr or i-Pr)-phosphoramidates	
(7)	Arsenic trichloride	(7784-34-1)
(8)	2,2-Diphenyl-2-hydroxyacetic acid	(76-93-7)
(9)	Quinuclidin-3-ol	(1619-34-7)
(10)	N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethyl-2-chlorides and corresponding protonated salts	
(11)	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)
(12)	N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethane-2-thiols and corresponding protonated salts	
(13)	Thiodiglycol: Bis(2-hydroxyethyl)sulfide	(111-48-8)
(14)	Pinacolyl alcohol: 3,3-Dimethylbutan-2-ol	(464-07-3)

SCHEDULE 3

A. Toxic chemicals :

(1)	Phosgene : Carbonyl dichloride	(75-44-5)
(2)	Cyanogen chloride	(506-77-4)
(3)	Hydrogen cyanide	(74-90-8)
(4)	Chloropicrin : Trichloronitromethane	(76-06-2)

B. Precursors :

(5)	Phosphorus oxychloride	(10025-87-3)
(6)	Phosphorus trichloride	(7719-12-2)
(7)	Phosphorus pentachloride	(10026-13-8)
(8)	Trimethyl phosphite	(121-45-9)
(9)	Triethyl phosphite	(122-52-1)
(10)	Dimethyl phosphite	(868-85-9)
(11)	Diethyl phosphite	(762-04-9)
(12)	Sulfur monochloride	(10025-67-9)
(13)	Sulfur dichloride	(10545-99-0)
(14)	Thionyl chloride	(7719-09-7)
(15)	Ethyldiethanolamine	(139-87-7)
(16)	Methyldiethanolamine	(105-59-9)
(17)	Triethanolamine	(102-71-6)

Product Group Codes
Standard International Trade Classification (SITC) 3 Digit Codes
(an excerpt of chemicals and related products)

Code	Description
511	Hydrocarbons and their halogenated, sulphonated, nitrated or nitrosated derivatives
512	Alcohols, phenols, phenol-alcohols, and their halogenated, sulphonated, nitrated or nitrosated derivatives
513	Carboxylic acids and their anhydrides, halides, peroxides and peroxyacids; their halogenated, sulphonated, nitrated or nitrosated derivatives
514	Nitrogen-function compounds
515	Organo-inorganic compounds, heterocyclic compounds, nucleic acids and their salts, and sulphonamides
516	Other organic chemicals
522	Inorganic chemical elements, oxides and halogen salts
523	Metal salts and peroxysalts, of inorganic acids
524	Other inorganic chemicals; organic and inorganic compounds of precious metals
525	Radioactive and associated materials
531	Synthetic organic colouring matter and colour lakes, and preparations based thereon
532	Dyeing and tanning extracts, and synthetic tanning materials
533	Pigments, paints, varnishes and related materials
541	Medicinal and pharmaceutical products, other than medicaments of Group 542
542	Medicaments (including veterinary medicaments)
551	Essential oils, perfume and flavour materials
553	Perfumery, cosmetic or toilet preparations (excluding soaps)
554	Soap, cleansing and polishing preparations
562	Fertilizers (other than those of Group 272)
571	Polymers of ethylene, in primary forms
572	Polymers of styrene, in primary forms
573	Polymers of vinyl chloride or of other halogenated olefins in primary forms
574	Polyacetals, other polyethers and epoxide resins, in primary forms; Polycarbonates, alkyd resins, polyallylesters and other polyesters
575	Other plastics, in primary forms
579	Waste, parings and scrap, of plastics
581	Tubes, pipes and hoses, and fittings therefor, of plastics
582	Plates, sheets, film, foil and strip, of plastics
583	Monofilament of which any cross-sectional dimension exceeds 1 mm, rods, sticks and profile shapes, whether or not surface-worked but not otherwise worked, of plastics
591	Insecticides, rodenticides, fungicides, herbicides, anti-sprouting products and plant-growth regulators, disinfectants and similar products, put up in forms or packings for retail sale or as preparations or articles (e.g. sulphur-treated bands, wicks and candles, and fly papers)
592	Starches, insulin and wheat gluten; albuminoidal substances; glues
593	Explosives and pyrotechnic products
597	Prepared additives for mineral oils and the like; Prepared liquids for hydraulic transmission; Anti-freezing preparations and prepared de-icing fluids; Lubricating preparations
598	Miscellaneous chemical products
599	Others