

## Structure of the database

### 1. Access to the database

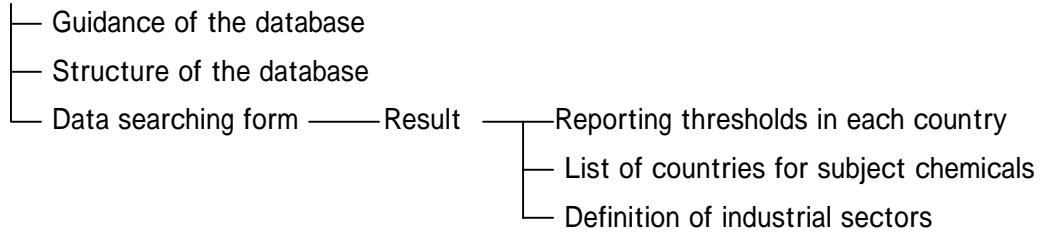
Users can access the database from the following URL address;

<http://www.oecd.org/env/prtr/data>

### 2. Structure of the database

The structure of the database homepage is as follows;

Top page



### 3. Elements of the database

#### 3.1 Reporting years, countries, industry sectors and chemicals

The database contains PRTR data of the following countries, industry sectors, and chemicals from the year 2001 onwards.

##### 3.1.1 Reporting years

PRTR data of the calendar year and/or fiscal year are currently compiled in this database. (See Annex7 for the definition of reporting periods within each country)

Users can select one or more reporting years in their search.

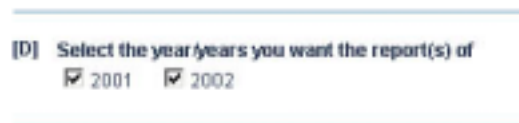


Fig.3.1 Image of selecting reporting years

##### 3.1.2 Countries (regions)

PRTR data of the eight countries/regions on a regional (e.g. state, province) basis and a national basis are currently compiled in the database (See Annex1.).

- Australia ; 8 states
- Belgium ; (national data only)
- Canada ; 13 provinces
- England & Wales ; (national data only)
- Japan ; (national data only)
- Netherlands\* ; (national data only)
- Scotland ; (national data only)
- USA ; 50 states and 7 regions

\* Data of the Netherlands was downloaded from the homepage [www.emissieregistratie.nl](http://www.emissieregistratie.nl) and processed by the lead country. This homepage has a very detailed geographical database providing selections on a 500 × 500 meter grid, catchment areas, provinces, waterboards and municipalities. However, the data for 2001 is confined to the national level. (Data of the previous year includes geographical data in addition to the national data) Hence, only the national data is compiled in the database at present.

Users can select the country or region they are searching for.

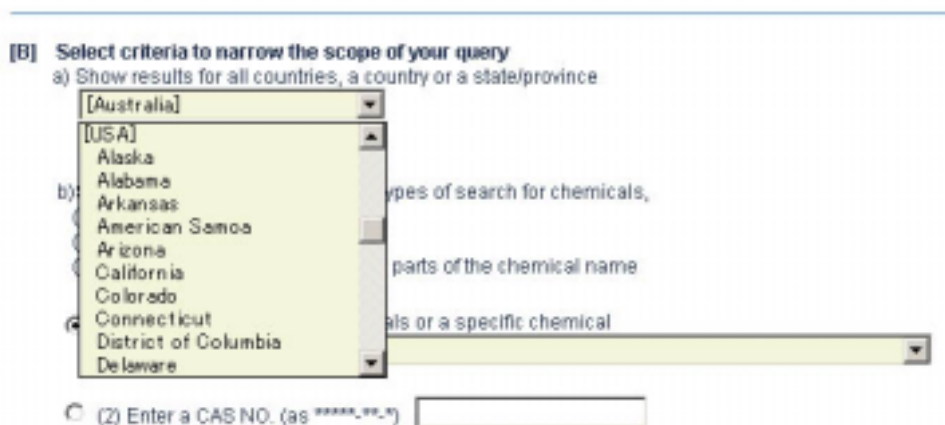


Fig.3.2 Image of Selecting countries/regions

### 3.1.3 Industry Sectors

The classification of industry sectors of seven countries was unified into the classification of industry sectors of ISIC. As additional categories such as “mobile sources”, “home/office”, “non-classifiable establishments” and “natural sources”, of which type of industry cannot be specified, are added to the categories of ISIC\* (See Annex2.).

\* The US’s definition of the industry sector will be changed to the NAICS. The matching list of the NAICS and the ISIC will be prepared.

Users can select the industry sector they are searching for.

c) Take into account data for the following industry sector

[C] Select

All Sectors

- 1 Agriculture, hunting and related service activities
- 2 Forestry, logging and related service activities
- 5 Fishing, operation of fish hatcheries and fish farms: service activities incidental to fishing
- 10 Mining of coal and lignite; extraction of peat
- 11 Extraction of crude petroleum and natural gas; service activities incidental to oil and gas
- 12 Mining of Uranium and Thorium Ores
- 13 Mining of metal ores
- 14 Other mining and quarrying
- 15 Manufacture of food products and beverages
- 16 Manufacture of tobacco products
- 17 Manufacture of textiles

[D] Select the year/years you want the report(s) of

2001    2002

Fig.3.3 Image of selecting industry sectors

### 3.1.4 Chemicals

There are 1,155 chemicals, groups of chemicals and other relevant pollutants which are listed as a subject chemical in at least one of the countries and 13 chemicals are common to seven countries (See Annex3 & 4.).

Users can select the chemical from the chemical list, or enter the CAS number or chemical name of substance they are searching for.

- b) Select one from the following three types of search for chemicals,  
(1) Select a specific chemical name  
(2) Enter a CAS NO  
(3) Enter a chemical name or some parts of the chemical name

- (1) Take into account all chemicals or a specific chemical

Select the chemical
Bentazone (25057-89-0)
benzal chloride (98-87-3)
benzaldehyde (100-52-7)
benzene (71-43-2)
Benzene, Toluene, Ethylbenzene, Xylenes (NA-82)
benzidine (92-87-5)
benzo(a)anthracene (56-55-3)
benzo(a)fluorene (238-84-6)
benzo(a)phenanthrene (218-01-9)
benzo(a)pyrene (50-32-8)
benzo(b)fluoranthene (205-99-2)

Fig.3.4 Image of selecting chemicals

## 3.2 Types of release and transfer

### 3.2.1 Types of sources

The emissions sources are divided into the following categories:

- Total of point and diffuse sources
- Point sources (reported by sources)
- Diffuse sources (estimated by the respective governments)

The type of sources in the database is shown in the following table;

Table3.1 Type of sources in the database

	Australia	Belgium	Canada	England & Wales	Japan	Netherlands	Scotland	USA
Point								
Diffuse*1					*2	*3		

\*1 matching list between diffuse sources and industry sector code categories of Japan and the Netherlands in the database is shown in annex5

\*2 small-sized enterprises (20 or less full-time employees etc.), non-subject industry sectors (agriculture (pesticides), construction (paints, adhesive, etc.)), households (pesticides, paints, cleaner, etc.), mobile sources (automobiles, airplanes, vessels, etc.)

\*3 small and medium-sized enterprises, traffic and transport, agriculture, consumers and product use, natural sources, other sources of pollution (secondary sources such as deposition of air pollutants to water and soil, emissions from storm sewers and rainwater sewage systems, etc.)

Users can select the type of source they are searching for.

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**[C] Select for the sources you want a report**

Total of point and diffuse sources

Point sources(reported by sources)

Diffuse sources(estimated by the government)

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Fig.3.5 Image of selecting type of sources

### 3.2.2 Releases and transfers

In the database, “Release” is categorized into 4 components, “Transfer” is categorized into 4 components and 2 subcomponents. The details are as follows.

- Releases
  - Air emissions
  - Surface water discharges
  - Land emissions
  - Landfills
- Transfers
  - Off-site transfers in waste
    - Off-site transfers to disposal
    - Off-site transfers to treatment
  - Off-site transfers for recycling
  - Off-site transfers for energy recycling
  - Transfers to sewage

The type of releases and transfers in this database are shown in the following table;

Table3.2 Type of releases and transfers in this database

	Australia	Belgium	Canada	England & Wales	Japan	Netherlands	Scotland	USA
Releases								
Air								
Surface water				*3		*4		
Land								
Landfill						*5		
Total releases								
Transfers								
In waste				*3		*5		
Disposal*1								
Treatment*1								
For recycling				*3				
For energy Recycling				*3				
Sewage		*2		*3				
Total transfers								

\*1 In Canada, these definitions are based on the expressions of the Basel convention. In the US, these are based on the expressions of the US TRI (refer Annex6.).

\*2 Belgium submits the data to EPER. In the EPER, emissions of wastewater to a sewer system is considered as indirect releases to water and not as substance specific transfer of wastewater. In this database, emissions of wastewater is categorized as “Transfers to Sewage”.

\*3 There are some differences in the name/expression of releases/transfers between England & Wales and this database.

"Emission to sewer" in England & Wales corresponds to "Transfers to sewage" in this database.

"Emission to controlled Water" in England & Wales corresponds to "Surface water discharges" in this database.

Sum of "Disposal-Incineration" and "Disposal-Landfill" and "Disposal-Other" in England & Wales corresponds to "Off-site to disposal" in this database.

"Recovery as fuel" in England & Wales corresponds to "Off-site for energy recovery" in this database.

Sum of "Recovery-Other" and "Reuse" in England & Wales corresponds to "Off-site for recycling"

\*4 As to wastewater treatment, there is double reporting : Data with water emissions at the source and data with the load of the environment where indirect emissions to sewer are replaced by the effluents of the wastewater treatment.

\*5 In the Netherlands, Landfills and Transfers in Waste are reported, but they are not compiled into the Netherlands' database on their web site. Hence, the data has not been compiled into this database.

Users can select the type of releases and transfers in which they are searching for.

Fig.3.6 Image of selecting type of releases and transfers

### 3.3 Notification of the difference among PRTR systems

PRTR data cannot be compared directly among different countries, since various differences among PRTR systems such as subject chemicals, subject industry sectors, reporting periods and so on exists. In order to prevent any misinterpretation of data, the following notifications are compiled to the database for understanding the differences of PRTR systems among different countries.

### 3.3.3 Summary of PRTR systems

The following information of PRTR system of each country is shown in this database;

- name of PRTR system
- number of subject chemicals (See 3.1.4)
- subject industry sectors (See 3.1.3)
- reporting threshold (Activity/Use of Chemicals, Number of employees, and Others)  
(See Annex7.)
- type of sources (See 3.2.1)
- website of PRTR system

Users can browse the summary of PRTR system in each country from the result page.



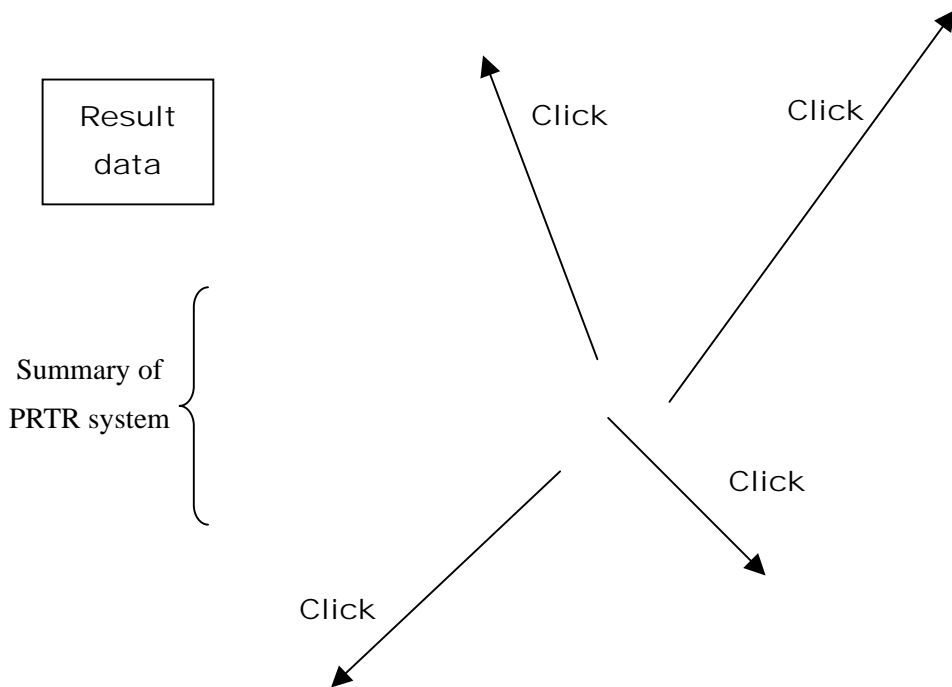


Fig.3.7 Image of browsing the summary of PRTR system (Result page, Example of Japan)

### 3.3.3 Selecting criteria of subject chemicals

Selecting criteria of subject chemicals in each country is shown in this database. (See Annex8.)

The differences of subject chemicals among countries are shown in 3.1.4.

Users can browse the selecting criteria of subject chemicals in each country from the result page.

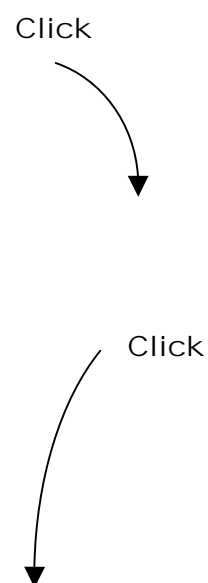


Fig.3.8 Image of browsing the selection criteria of subject chemicals (Result page)

# Annex 1

## Country/Region list

Australia
Australian Capital Territory
New South Wales
Northern Territory
Queensland
South Australia
Tasmania
Victoria
Western Australia
Belgium
Canada
Alberta
British Columbia
Manitoba
New Brunswick
Newfoundland
Nova Scotia
Northwest Territories
Nunavut
Ontario
Prince Edward Island
Quebec
Saskatchewan
Yukon
England & Wales
Japan
Netherlands
Scotland

USA
Alaska
Alabama
Arkansas
American Somoa
Arizona
California
Colorado
Connecticut
Dist of Columbia
Delaware
Florida
Georgia
Guam
Hawaii
Iowa
Idaho
Illinois
Indiana
Kansas
Kentucky
Louisiana
Massachusetts
Maryland
Maine
Michigan
Minnesota
Missouri
Mariana Islands
Mississippi
Montana
North Carolina
North Dakota
Nebraska
New Hampshire
New Jersey
New Mexico
Nevada
New York
Ohio
Oklahoma
Oregon
Pennsylvania
Puerto Rico
Rhode Island
South Carolina
South Dakota
Tennessee
Texas
Utah
Virginia
Virgin Islands
Vermont
Washington
Wisconsin
West Virginia
Wyoming



Annex 2

Matching list of ISIC code and industrial code of 8 countries/regions

ISIC Code	ISIC Name	Australia			Belgium (NOSE-P Processes)			Canada			England & Wales			Japan			Netherland			Scotland(NACE codes)			USA			
		type of source	code in own country	name in own country	type of source	code in own country	name in own country	type of source	code in own country	name in own country	type of source	code in own country	name in own country	type of source	code in own country	name in own country	type of source	code in own country	name in own country	type of source	code in own country	name in own country	type of source	code in own country	name in own country	
1	Agriculture, hunting and related service activities	P	01	Agriculture	P	110.04	Entric fermentation	P	01	Agricultural Industries	P	6.9	OTHER INDUSTRY - TREATMENT/PROCESSING OF ANIMAL OR VEGETARIAN MATTER	D	A	Agriculture	OR		P		1	Agriculture, hunting and related service activities	OR			
2	Forestry, logging and related	OR			OR			OR			OR			D	B	Forestry	OR		OR				OR			
5	Fishing, operation of fish hatcheries and fish farms; service activities incidental to fishing	OR						P	03	Fishing and Trapping Industries	OR			D	4	aquaculture	OR		OR				OR			
10	Mining of coal and lignite; extraction of peat	P	11	Coal Mining	OR			OR			OR			OR				OR				P	12	coal mining		
11	Extraction of crude petroleum and natural gas; service activities incidental to oil and gas extraction excluding surveying	P	12	Oil and Gas Extraction	OR			P	07	Crude Petroleum and Natural Gas Ind.	P	1.4	FUEL AND POWER PRODUCTION AND ASSOCIATED PROCESSES - PETROLEUM PROCESSES (data is included "Manufacture of coke, refined petroleum ...")	P	7	Crude petroleum and natural gas production	OR		P		11	Extraction of crude petroleum and natural gas; service activities incidental to oil and gas extraction, excluding surveying	OR			
12	Mining of Uranium and Thorium Ores	P	1319	Metal Ore Mining n.e.c. (uranium mining portion)	OR			OR			OR			OR				OR				OR				
13	Mining of metal ores	P	1311	Iron Ore Mining	OR			P	06	Mining Industries	OR			P	5	Metal mining	OR		OR				P	10	metal mining	
1312		P	1312	Bauxite Mining																						
1313		P	1313	Copper Ore Mining																						
1314		P	1314	Gold Ore Mining																						
1315		P	1315	Mineral Sand Mining																						
1316		P	1316	Nickel Ore Mining																						
1317		P	1317	Silver-Lead-Zinc Ore Mining																						
1319		P	1319	Metal Ore Mining n.e.c. (non uranium portion)																						
14	Other mining and quarrying	P	14	Other Mining	OR			P	08	Quarry and Sand Pit Industries	OR			OR				OR				P	14	Nonmetallic Minerals, except fuels		
15	Manufacture of food products	P	211	Meat and Meat Product Manufacturing	P	105.03	Manufacture of food products and beverages	P	10	Food Industries	OR			P	12	Manufacture of food	OR		P		15	Manufacture of food products and beverages	P	20	food and kindered products	
212		P	212	Dairy Product Manufacturing	P	109.03	Incineration of animal carcasses and animal waste	P	11	Beverage Industries																
213		P	213	Fruit and Vegetable Processing	P	105.14	Recycling of animal carcasses/waste																			
214		P	214	Oil and Fat Manufacturing																						
215		P	215	Flour Mill and Cereal Food Manufacturing																						
216		P	216	Bakery Product Manufacturing																						
217		P	217	Other Food Manufacturing																						
218		P	218	Beverage and Malt Manufacturing																						
16	Manufacture of tobacco products	P	2190	Tobacco Product Manufacturing	OR			P	12	Tobacco Products Industries	OR			P	13	Manufacture of beverage, tobacco and feed			OR			P	21	tobacco products		
17	Manufacture of textiles	P	221	Textile Fibre, Yarn and Woven Fabric Manufacturing	P	105.04	Manufacture of textiles and textile products	P	18	Primary Textile Industries	OR			P	14	Manufacture of textile mill products, except apparel and other finished products made from fabrics and similar materials			OR			P	22	textile mill products		
222		P	222	Textile Product Manufacturing	P	107.03	Textile finishing or leather tanning																			
18	Manufacture of wearing apparel; dressing and dyeing of fur	P	224	Clothing Manufacturing	P	107.03	Textile finishing or leather tanning (data is included "Manufacture of textiles")	P	19	Textile Products Industries	OR			P	15	Manufacture of apparel and other finished products made from fabrics and similar materials	OR		OR			P	23	apparel and finished products made from fabrics and other similar materials		
24		P	24	Clothing Industries																						
19	Tanning and dressing of leather; manufacture of luggage, handbags, saddlery, harness and footwear	P	226	Leather and Leather Product Manufacturing	P	105.05	Manufacture of leather and leather products	P	17	Leather and Allied Products Industries	OR			P	24	Manufacture of leather tanning, leather products and fur skins	OR		P		19	Tanning and dressing of leather; manufacture of luggage, handbags, saddlery, harness and footwear	P	31	leather and leather products	
107.03		P	107.03	Textile finishing or leather tanning (data is included "Manufacture of textiles")																						
20	Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	P	231	Log Sawmilling and Timber Dressing	P	107.01	Patting application (data is included "Manufacture of fabricated metal products, except machinery and equipment")	P	25	Wood Industries	P	6.7	OTHER INDUSTRY - TIMBER PROCESES	P	16	Manufacture of lumber and wood products, except furniture	OR		P		20	Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plating materials	P	24	lumber and wood products, except furniture	
232		P	232	Other Wood Product Manufacturing																						
21	Manufacture of paper and paper products	P	2331	Pulp, Paper and Paperboard Manufacturing	P	105.07	Manufacture of pulp, paper and paper products	P	27	Paper and Allied Products Industries	P	6.1	OTHER INDUSTRY - PAPER AND PULP MANUFACTURING PROCESSES	P	18	Manufacture of pulp, paper and paper products	OR		P		21	Manufacture of pulp, paper and paper products	P	26	paper and allied products	
2333		P	2333	Corrugated Paperboard Container Manufacturing	P	107.04	Printing industry (data is included "Publishing, printing and reproduction of recorded media")																			
2339		P	2339	Paper Product Manufacturing n.e.c.																						
233		P	233	Paper and Paper Product Manufacturing																						
2411		P	2411	Paper Stationery Manufacturing																						
242		P	242	Publishing																						

ISIC Code	ISIC Name	Australia		Belgium (NOSE-P Processes)		Canada		England & Wales		Japan		Netherland		Scotland(NACE codes)		USA		
44	22 Publishing, printing and reproduction of recorded media	P	2412 Printing	P	107.04 Printing industry	P	28 Printing, Publishing and Allied Ind.	P	6.5 OTHER INDUSTRY - COATING PROCESSES AND PRINTING	P	19 Publishing, printing and allied industries	OR		OR		P	27 printing, publishing, and allied industries	
45		P	2413 Services to Printing					P	6.6 OTHER INDUSTRY - MANUFACTURE OF DYE/STUFFS/PRINTING INK/COATING MATS									
46	23 Manufacture of coke, refined petroleum products and nuclear fuel	P	251 Petroleum Refining	P	104.08 Other solid fuel transformation	P	36 Refined Petroleum and Coal Products Ind.	P	1.4 FUEL AND POWER PRODUCTION AND ASSOCIATED PROCESSES - PETROL FIM	P	21 Manufacture of petroleum and coal products	P	10 Refineries	P	23 Manufacture of coke, refined petroleum products and nuclear fuel	P	29 petroleum refining and related industries	
47		P	252 Petroleum and Coal Product Manufacturing n.e.c.	P	105.08 Petroleum product processing			P	6.4 OTHER INDUSTRY - PROCESSES INVOLVING URANIUM									
48								P	6.3 OTHER INDUSTRY - TAR AND BITUMEN									
49								P	1.1 FUEL AND POWER PRODUCTION AND ASSOCIATED PROCESSES - GASIFICATION AND									
50								P	1.2 FUEL AND POWER PRODUCTION AND ASSOCIATED PROCESSES - CARBONISATION AND ASSOCIATED PROCESSES									
51	24 Manufacture of chemicals and chemical products	P	253 Basic Chemical Manufacturing	P	105.09 Manufacture of organic chemicals	P	37 Chemical and Chemical Products Ind.	P	4.1 THE CHEMICAL INDUSTRY - PETROCHEMICAL	P	20 Manufacture of chemical and allied products	P	2 Chemical Industry	P	24 Manufacture of chemicals, chemical products	P	28 chemicals and allied products	
52		P	254 Other Chemical Product Manufacturing	P	107.03 Manufacture of solvent based organic products			P	4.2 THE CHEMICAL INDUSTRY - MANUFACTURE AND USE									
53				P	105.09 Manufacture of inorganic chemicals or NPK fertilisers			P	4.3 THE CHEMICAL INDUSTRY - ACID									
54				P	105.09 Manufacture of pesticides or explosives			P	4.4 THE CHEMICAL INDUSTRY - PROCESSES INVOLVING HALOGENS									
55				P	107.03 Manufacture of pharmaceutical products			P	4.5 THE CHEMICAL INDUSTRY - INORGANIC CHEMICAL PROCESSES									
56				P	105.09 Manufacture of carbon or graphite			P	4.6 THE CHEMICAL INDUSTRY - CHEMICAL FERTILISER									
57				P	107.02 Degreasing, dry cleaning and electronics (data is included "Manufacture of fabricated metal products, except machinery and equipment")			P	4.7 THE CHEMICAL INDUSTRY - PESTICIDE PRODUCTION									
58								P	4.8 THE CHEMICAL INDUSTRY - PHARMACEUTICAL									
59							P	4.9 THE CHEMICAL INDUSTRY - STORAGE OF CHEMICALS IN BULK										
60	25 Manufacture of rubber and plastics products	P	255 Rubber Product Manufacturing	P	107.02 Degreasing, dry cleaning and electronics (data is included "Manufacture of fabricated metal products, except machinery and equipment")	P	15 Rubber Products Industries	P	6.8 OTHER INDUSTRY - PROCESSES INVOLVING RUBBER	P	22 Manufacture of plastic products, except otherwise classified	OR		P	25 Manufacture of rubber and plastic products	P	30 rubber and miscellaneous plastics products	
61		P	256 Plastic Product Manufacturing			P	16 Plastic Products Industries	P	4.2 THE CHEMICAL INDUSTRY - MANUFACTURE AND USE OF ORGANIC CHEMICALS (data is included "Manufacture of chemical products")	P	23 Manufacture of rubber products							
62	26 Manufacture of other non-metallic mineral products	P	26 Non-Metallic Mineral Product Manufacturing	P	104.11 Manufacture of plaster, asphalt, concrete, cement, glass, fibres, bricks, tiles or ceramic products	P	35 Non-metallic Mineral Products Industries	P	3.1 MINERAL INDUSTRIES - CEMENT/LIME MANUFACTURE AND ASSOCIATED PROCESSES	P	25 Manufacture of ceramic, stone and clay products	OR		P	26 Manufacture of other non-metallic mineral products	P	32 stone, clay, glass and concrete products	
63				P	105.11 Manufacture of asbestos and asbestos-based products				P	3.2 MINERAL INDUSTRIES - PROCESSES INVOLVING ASBESTOS								
64				P	107.02 Degreasing, dry cleaning and electronics (data is included "Manufacture of fabricated metal products, except machinery and equipment")				P	3.3 MINERAL INDUSTRIES - OTHER MINERAL FIBRES								
65									P	3.4 MINERAL INDUSTRIES - OTHER MINERAL PROCESSES								
66									P	3.5 MINERAL INDUSTRIES - GLASS MANUFACTURE AND PRODUCTION								
67							P	3.6 MINERAL INDUSTRIES - CERAMIC PRODUCTION										

ISIC Code	ISIC Name	Australia			Belgium (NOSE-P Processes)			Canada			England & Wales			Japan			Netherlands			Scotland (NACE codes)			USA		
68	27 Manufacture of basic metals	P	271	Iron and Steel Manufacturing	P	104.12	Primary and secondary metal production or sinter plants	P	29	Primary Metal Industries	P	2.1	METAL PRODUCTION AND PROCESSING - IRON AND STEEL	P	26	Manufacture of iron and steel	OR		P	27	Manufacture of basic metals	P	33	primary metal industries	
69		P	2721	Alumina Production	P	105.12	Characteristic processes in the manufacture of metals and metal product				P	2.2	METAL PRODUCTION AND PROCESSING - NON-FERROUS METALS	P	27	Manufacture of non-ferrous metals and products									
70		P	2722	Aluminium Smelting	P	105.01	Surface treatment of metals and plastics				P	2.3	METAL PRODUCTION AND PROCESSING - SMELTING PROCESSES												
71		P	2723	Copper, Silver, Lead and Zinc Smelting, Refining	P	104.08	Coke oven furnaces																		
72		P	2729	Basic Non-Ferrous Metal Manufacturing n.e.c.	P	107.02	Degreasing, dry cleaning and electronics (data is included "Manufacture of fabricated metal products, except machinery and equipment")																		
73		P	2733	Non-Ferrous Metal Casting																					
74	28 Manufacture of fabricated metal products, except machinery and equipment	P	2731	Aluminium Rolling, Drawing, Extruding	P	107.01	Patting application	P	30	Fabricated Metal Products Ind. (Except Machinery and Trans. Equipment Ind.)	P	2.1	METAL PRODUCTION AND PROCESSING - IRON AND STEEL (data is included "Manufacture of basic metals")	P	28	Manufacture of fabricated metal products	OR		OR			P	34	fabricated metal products, except machinery and transportation equipment	
75		P	274	Structural Metal Product Manufacturing	P	107.02	Degreasing, dry cleaning and electronics				P	2.2	METAL PRODUCTION AND PROCESSING - NON-FERROUS METALS (data is included "Manufacture of basic metals")												
76		P	275	Sheet Metal Product Manufacturing																					
77		P	276	Fabricated Metal Product Manufacturing																					
78		29 Manufacture of machinery and equipment n.e.c.	P	2851	Household Appliance Manufacturing	P	107.02	Degreasing, dry cleaning and electronics (data is included "Manufacture of fabricated metal products, except machinery and equipment")	P	31	Machinery Industries (Except Electrical Machinery)	OR			P	29	Manufacture of general machinery	OR		P	29	Manufacture of machinery and equipment n.e.c	P	35	industrial and commercial machinery and computer equipment
79	P		286	Industrial Machinery and Equipment Manufacturing																					
80	31 Manufacture of electrical machinery and apparatus n.e.c.	P	2853	Battery Manufacturing	P	107.02	Degreasing, dry cleaning and electronics (data is included "Manufacture of fabricated metal products, except machinery and equipment")	P	33	Electrical and Electronic Products Ind.	OR			P	30	Manufacture of electrical machinery, equipment and supplies	OR		P	31	Manufacture of electrical machinery and apparatus n.e.c	P	36	electronic and other electrical equipment and components, except computer equipment	
81		P	2859	Electrical and Equipment Manufacturing n.e.c.																					
82	33 Manufacture of medical, precision and optical instruments, watches and clocks	P	283	Photographic and Scientific Equipment Manufacturing	P	107.02	Degreasing, dry cleaning and electronics (data is included "Manufacture of fabricated metal products, except machinery and equipment")	OR			OR			P	32	Manufacture of precision instruments and machinery	OR		OR		P	38	measuring, analyzing, and controlling instruments		
83	34 Manufacture of motor vehicles, trailers and semi-trailers	P	281	Motor Vehicle and Part Manufacturing	P	107.02	Degreasing, dry cleaning and electronics (data is included "Manufacture of fabricated metal products, except machinery and equipment")	P	32	Transportation Equipment Industries	OR			P	31	Manufacture of transportation equipment	OR		OR		P	37	transportation equipment		
84	35 Manufacture of other transport equipment	P	282	Other Transport Equipment Manufacturing	P	107.02	Degreasing, dry cleaning and electronics (data is included "Manufacture of fabricated metal products, except machinery and equipment")	OR			OR			P	31	Manufacture of transportation equipment (data is included "manufacture of motor vehicles, trailers and semi-trailers")	OR		OR						
85	36 Manufacture of furniture; manufacturing n.e.c.	P	29	Other Manufacturing	P	107.02	Degreasing, dry cleaning and electronics (data is included "Manufacture of fabricated metal products, except machinery and equipment")	P	26	Furniture and Fixture Industries	OR			P	17	Manufacture of furniture and fixtures	P	8	Other Industries	OR		P	25	furniture and fixtures	
86		P	39	Other Manufacturing Industries										P	33	Manufacture of ordnance and accessories					P	39	miscellaneous manufacturing industries		
87		P	34	Miscellaneous manufacturing industries										P	34	Miscellaneous manufacturing industries									
88	37 Recycling	P	2331	Pulp, Paper and Paperboard Manufacturing	OR			OR			P	5.2	WASTE DISPOSAL AND RECYCLING - RECOVERY PROCESSES	OR			OR		OR						
89		P	2722	Aluminium Smelting							P	5.3	WASTE DISPOSAL AND RECYCLING - PRODUCTION OF FUEL												
90	40 Electricity, gas, steam and hot water supply	P	36	Electricity and Gas Supply	P	101.01	Combustion processes > 300MW	P	49	Other Utility Industries	P	1.3	FUEL AND POWER PRODUCTION AND ASSOCIATED PROCESSES - COMBUSTION	P	35	Production, collection and distribution of electricity	P	6	Energy Sector	P	40	Electricity, gas, steam and hot water supply	P	49	electric, gas, and sanitary services
91					P	101.02	Combustion processes > 50 and <300MW				P	8.0	NUCLEAR - PROCESSES HANDLING RADIOACTIVE	P	36	Manufacture of gas									
92					P	101.03	Combustion in gas turbines							P	37	Heat supply									
93					P	101.04	Combustion in stationary engines																		
94	41 Collection, purification and distribution of water	P	3701	Water Supply	OR			OR			OR			P	38	Collection, purification and distribution of water, and sewage collection, processing and disposal	P	5	Drinking-water companies	OR		OR			
95	45 Construction	P	41	General Construction	OR			P	40	Building Developing and General Contracting Industries	OR			D	9	Construction work, general including public and private construction work	P	3	Construction Industry	P	45	Construction	D	15	General Building Contractors
96								P	41	Industrial and Heavy (Engineering) Construction Industries				D	10	Construction work by occupation, except equipment installation work								17	construction special trade contracts
97									P	44	Service Ind. Incidental to Construction														

ISIC Code	ISIC Name	Australia			Belgium (NOSE-P Processes)			Canada			England & Wales			Japan			Netherland			Scotland(NACE codes)			USA		
98	50 Sale, maintenance and repair of motor vehicles and motorcycles; retail sale of automotive fuel	OR			OR			P	51	Petroleum Products Industries, Wholesale	OR		P	5132	Petroleum	OR		OR		P	75	Auto repair, services and parking			
99							P	55	Motor Vehicle, Parts and Accessories Industries, Wholesale			P	5142	Scrap of iron					P	76	Miscellaneous Repair Service				
100							P	63	Automotive Vehicles, Parts and Accessories, Sales and Service			P	522	Motor vehicles											
101													P	593	Fuel stores										
102													P	771	Automobile repair services										
103												P	781	Machine, upholstery, furniture, etc. repair											
104	51 Wholesale trade and commission trade, except of motor vehicles and motorcycles	P	45	Basic Material Wholesaling	OR			OR				OR							OR		P	50	wholesale trade-durable goods		
105		P	47	Personal and Household Good Wholesaling																	P	51	Wholesale trade-nondurable goods		
106	52 Retail trade, except of motor vehicles and motorcycles; repair of personal and household goods	OR			OR			P	50	Farm Products Industries, Wholesale	OR		OR						OR		P	52	Building materials and garden supplies		
107							P	52	Food, Beverage, Drug and																
108							P	56	Metals, Hardware, Plumbing,																
109							P	59	Other Products and Industries, Wholesale																
110						P	62	Household Furniture, Appliances and Furnishings Industries, Retail													P	56	Apparel and accessory stores		
111	55 Hotels and restaurants	P	57	Accommodation, Cafes and Restaurants	OR			OR				OR							OR		P	58	Eating and drinking places		
112	60 Land transport; transport via pipelines	P	62	Rail Transport	OR			P	45	Transportation Industries	OR		P	39	Railway transport	OR			P	60	Land transport; transport via pipelines	OR			
113							P	46	Pipeline Transport Industries			D	40	Road passenger transport											
114	61 Water transport	OR			OR			OR				OR						OR		P	44	water transportation			
115	62 Air transport	P	64	Air and Space Transport				OR				OR							OR		P	42	motor freight transportation and warehousing		
116								OR				OR										45	transportation by air		
117	63 Supporting and auxiliary transport activities; activities of travel agencies	P	66	Services to Transport	OR			P	47	Storage and Warehousing Industries	OR		P	44	Warehousing	OR			OR		OR				
118																									
119	64 Post and telecommunications	OR	67	Storage	OR			OR	48	Communication Industries	OR		OR						OR		OR				
120	73 Research and development	OR			OR			OR				OR							OR		P	87	engineering, accounting, research, management, and related services		
121																									
122													P	921	Research institutes for natural science	OR				OR					
123	74 Other business activities	OR			OR			P	77	Business Service Industries	OR		P	743	Photographic studios	P	9	Other	OR		P	73	business services		
124								P	99	Other Service Industries			P	862	Commodity inspection services						P	89	othre services		
125	75 Public administration and defence; compulsory social securitiv	P	81	Government Administration	OR			P	81	Federal Government Service Industries	OR		OR						OR		P	91	executive, legislative, and general government, except finance		
126								P	82	Provincial and Territorial Government Service Industries											P	92	justice, public order, and safety		
127				82	Defence				P	83	Local Government Service Industries											P	94	Administration of Human Resources	
128																						P	95	administration of environmental quality and housing programs	
129																						P	96	administration of economic programs	
130																					P	97	national security and international affairs		
131	80 Education	OR			OR			OR					P	914	Advanced educational organizations	OR			OR		P	82	Educational Services		
132																									
133	85 Health and social work	P	86	Health Services	OR			P	86	Health and Social Service Industries	OR		D	89	Public health services	OR			OR		P	80	health services		
134													D	88	Medical and other health services										
135	90 Sewage and refuse disposal, sanitation and similar activities	P	3702	Sewerage and Drainage Services	P	109.03	Incineration of hazardous or municipal waste	OR			P	7.0	WATER - SEWAGE TREATMENT WORKS	P	383	Collection, purification and distribution of water, and sewage collection, processing and disposal	P	11	Sewerage and Water Treatment	P	90	Sewage and refuse disposal, sanitation and similar activities	OR		
136				963	Public Order and Safety Services	P	109.06	Landfills			P	5.1	WASTE DISPOSAL AND RECYCLING - INCINERATION	P	8716	Domestic waste treatment services	P	14	Waste Treatment and Disposal						
137						P	109.07	Physico-chemical and biological treatment of waste						P	872	Industrial waste treatment services									
138					P	105.14	Regeneration/recovery of waste materials																		
139	91 Activities of membership organizations n.e.c.	OR			OR			OR					D	7663	Golf courses	OR			OR		OR				
140	92 Recreational, cultural and sporting activities	OR			OR			OR					D	767	Public gardens and amusement parks	OR			OR		P	79	Amusement and Recreation Services		
141	93 Other service activities	P	952	Other Personal Services	OR			OR					P	721	Laundries	P	13	TSG (Trade, Services and Government)	OR		P	65	Real estate		
142																									
143	95 Private households with employed persons	OR			OR			OR					OR						OR		OR				
144	888 End products (excluding usage in home/office) (Diffuse Source)	OR			OR			OR					D		Emission from activities of business enterprises which do not fall into the "business subject to PRTR notification" category (Diffuse Source)	D		Agricultural chemicals	OR		OR				
145	999 Mobile source (Diffuse Source)	OR			OR			OR					D		Transport (Diffuse Source)	D	12	Traffic and Transport	OR		OR				
146	8888 SMEs (Diffuse Source)	OR			OR			OR					D		Emission from business that are not obliged to PRTR notification (Diffuse Source)	OR			OR		OR				
147	9999 Home/Office (Diffuse Source)	OR			OR			OR					D		Home/Office (Diffuse Source)	D	4	Consumers	OR		OR				
148	99999 Nonclassifiable Establishments	OR			OR			OR					OR						OR		P	99	Nonclassifiable Establishments		
149	999999 Nature (Diffuse Source)	OR			OR			OR					OR						D	7	Nature	OR	IN	Invalid	



## ANNEX 3

## PRTR chemicals in 8 countries/regions

	CAS no	chemical name	Australia	Belgium	Canada	England & Wales	Japan	Netherlands	Scotland	USA	notes
1	50-00-0	formaldehyde									
2	50-29-3	Dichlorodiphenyltrichloroethane (DDT) - All isomers									
3	50-32-8	benzo(a)pyrene									
4	51-03-6	piperonyl butoxide									
5	51-21-8	fluorouracil									
6	51-28-5	2,4-dinitrophenol									
7	51-79-6	urethane									
8	52-51-7	2-bromo-2-nitropropane-1,3-diol									
9	52-68-6	trichlorfon									
10	52-85-7	famphur									
11	53-60-5	aliphatic dibasic acid esters									
12	53-70-3	dibenzo(a,h)anthracene									
13	53-96-3	2-acetylaminofluorene									
14	55-18-5	n-nitrosodiethylamine									
15	55-38-9	fenthion									
16	55-63-0	nitroglycerin									
17	55-63-0	nitroglycerin									
18	56-23-5	carbon tetrachloride									
19	56-35-9	bis(tributyltin) oxide									
20	56-38-2	parathion									
21	56-55-3	benzo(a)anthracene									
22	56-81-5	glycerole									
23	57-10-3	hexadecanoic acid									
24	57-13-6	urea									
25	57-14-7	1,1-dimethyl hydrazine									
26	57-41-0	phenytoin									
27	57-55-6	propylene glycol									
28	57-74-9	chlordan									
29	57-97-6	7,12-dimethylbenz(a)anthracene									
30	58-89-9	lindane									
31	58-90-2	2,3,4,6-tetrachlorophenol									
32	59-50-7	4-Chloro-3-Methylphenol									
33	59-89-2	n-nitrosomorpholine									
34	60-00-4	ethylenediaminetetraacetic acid									
35	60-09-3	4-aminoazobenzene									
36	60-24-2	2-mercaptoethanol									
37	60-34-4	methyl hydrazine									
38	60-35-5	acetamide									
39	60-51-5	dimethoate									
40	60-57-1	Dieldrin									
41	61-82-5	amitrole									
42	62-44-2	4'-ethoxyacetanilide; phenacetin									
43	62-53-3	aniline									
44	62-55-5	thioacetamide									
45	62-56-6	thiourea									
46	62-73-7	dichlorvos									
47	62-74-8	sodium fluoroacetate									
48	62-75-9	n-nitrosodimethylamine									
49	63-25-2	carbaryl									
50	64-17-5	ethanol									
51	64-18-6	formic acid									
52	64-19-7	acetic acid/glacial acetic acid									
53	64-67-5	diethyl sulphate									
54	64-75-5	tetracycline hydrochloride									
55	67-56-1	methanol									
56	67-63-0	isopropyl alcohol									
57	67-64-1	acetone									
58	67-66-3	chloroform									
59	67-72-1	hexachloroethane									
60	68-11-1	mercaptoacetic acid									
61	68-12-2	n,n-dimethylformamide									
62	70-30-4	hexachlorophene									
63	71-23-8	n-propanol (n-propyl alcohol)									
64	71-36-3	n-butyl alcohol									
65	71-41-0	1-pentanol									
66	71-43-2	benzene									
67	71-55-6	1,1,1-trichloroethane									
68	72-20-8	Endrin									
69	72-43-5	methoxychlor									
70	72-57-1	trypan blue									
71	74-82-8	methane									
72	74-83-9	bromomethane									
73	74-84-0	ethane									
74	74-85-1	ethylene									
75	74-86-2	acetylene									
76	74-87-3	chloromethane									
77	74-88-4	methyl iodide									
78	74-89-5	methylamine									
79	74-90-8	hydrogen cyanide									
80	74-93-1	methanethiol (methyl mercaptan)									

	CAS no	chemical name	Australia	Belgium	Canada	England & Wales	Japan	Netherlands	Scotland	USA	notes
81	74-95-3	methylene bromide									
82	74-96-4	ethyl bromide									
83	74-98-6	propane									
84	74-99-7	methyl acetylene									
85	75-00-3	chloroethane									
86	75-01-4	vinyl chloride									
87	75-05-8	acetonitrile									
88	75-07-0	acetaldehyde									
89	75-08-1	ethanethiol (ethyl mercaptan)									
90	75-09-2	dichloromethane									
91	75-15-0	carbon disulphide									
92	75-19-4	cyclopropane									
93	75-21-8	ethylene oxide									
94	75-25-2	bromoform									
95	75-26-3	isopropyl bromide									
96	75-27-4	dichlorobromomethane									
97	75-28-5	isobutane									
98	75-34-3	1,1-dichloroethane									
99	75-35-4	vinylidene chloride									
100	75-43-4	HCFC-21									
101	75-44-5	phosgene									
102	75-45-6	HCFC-22									
103	75-50-3	trimethylamine									
104	75-52-5	nitromethane									
105	75-55-8	propyleneimine									
106	75-56-9	propylene oxide									
107	75-63-8	halon 1301									
108	75-65-0	tert-butyl alcohol									
109	75-68-3	HCFC-142b									
110	75-69-4	CFC-11									
111	75-71-8	CFC-12									
112	75-72-9	CFC-13									
113	75-86-5	2-methylacetonitrile									
114	75-87-6	trichloroacetaldehyde									
115	75-88-7	2-chloro-1,1,1-trifluoroethane									
116	76-01-7	pentachloroethane									
117	76-02-8	trichloroacetyl chloride									
118	76-06-2	chloropicrin									
119	76-13-1	CFC-113									
120	76-14-2	CFC-114									
121	76-15-3	CFC-115									
122	76-15-3	CFC-115									
123	76-44-8	heptachlor									
124	76-87-9	triphenyltin hydroxide									
125	77-47-4	hexachlorocyclopentadiene									
126	77-73-6	dicyclopentadiene									
127	77-78-1	dimethyl sulphate									
128	78-00-2	tetraethyl lead									
129	78-42-2	trioctyl phosphate									
130	78-48-8	s.s.s-tributyltrithiophosphate									
131	78-67-1	2,2'-azobisisobutyronitrile									
132	78-78-4	isopentane									
133	78-79-5	isoprene									
134	78-83-1	i-butyl alcohol									
135	78-84-2	isobutyraldehyde									
136	78-87-5	1,2-dichloropropane									
137	78-88-6	2,3-dichloropropene									
138	78-89-7	propylene chlorohydrin									
139	78-92-2	sec-butyl alcohol									
140	78-93-3	methyl ethyl ketone									
141	79-00-5	1,1,2-trichloroethane									
142	79-01-6	trichloroethylene									
143	79-04-9	chloroacetyl chloride									
144	79-06-1	acrylamide									
145	79-09-4	propanoic acid									
146	79-10-7	acrylic acid									
147	79-11-8	chloroacetic acid									
148	79-19-6	thiosemicarbazide									
149	79-20-9	methyl acetate									
150	79-21-0	peracetic acid									
151	79-22-1	methyl chlorocarbonate									
152	79-34-5	1,1,2,2-tetrachloroethane									
153	79-41-4	methacrylic acid									
154	79-44-7	dimethylcarbonyl chloride									
155	79-46-9	2-nitropropane									
156	79-94-7	Tetrabromo-Bisphenol A (TBBPA)									
157	80-05-7	bisphenol A									
158	80-15-9	cumene hydroperoxide									
159	80-62-6	methyl methacrylate									
160	81-07-2	saccharin									
161	81-88-9	C.I. food red 15									
162	82-68-8	PCNB									
163	83-32-9	acenaphthene									
164	84-51-5	2-ethylanthraquinone									

CAS no	chemical name	Australia	Belgium	Canada	England & Wales	Japan	Netherlands	Scotland	USA	notes
165	84-66-2	diethyl phthalate								
166	84-74-2	dibutyl phthalate								
167	85-00-7	diquat dibromide								
168	85-01-8	phenanthrene								
169	85-44-9	phthalic anhydride								
170	85-68-7	butyl benzyl phthalate								
171	86-30-6	n-nitrosodiphenylamine								
172	86-50-0	Azinphos-Methyl								
173	86-73-7	fluorene								
174	87-62-7	2,6-xylydine								
175	87-68-3	hexachloro-1,3-butadiene								
176	87-86-5	pentachlorophenol (PCP)								
177	87-86-5	pentachlorophenol								
178	88-06-2	2,4,6-trichlorophenol								
179	88-75-5	2-nitrophenol								
180	88-85-7	dinitrobutyl phenol								
181	88-89-1	picric acid								
182	89-61-2	1,4-dichloro-2-nitrobenzene								
183	90-02-8	salicylaldehyde								
184	90-04-0	o-anisidine								
185	90-43-7	o-phenylphenol								
186	90-94-8	michler's ketone								
187	91-08-7	toluene-2,6-diisocyanate								
188	91-17-8	decahydronaphthalene (decalin)								
189	91-20-3	naphthalene								
190	91-22-5	quinoline								
191	91-59-8	beta-naphthylamine								
192	91-94-1	3,3-dichlorobenzidine								
193	92-52-4	biphenyl								
194	92-67-1	4-aminobiphenyl								
195	92-87-5	benzidine								
196	93-65-2	mecoprop								
197	94-36-0	benzoyl peroxide								
198	94-58-6	dihydrosafrole								
199	94-59-7	safrole								
200	94-74-6	methoxone								
201	94-75-7	2,4-D								
202	94-80-4	2,4-D butyl ester								
203	94-82-6	2,4-DB								
204	95-13-6	indene								
205	95-31-8	n-(tert-butyl)-2-benzothiazolesulfenamide								
206	95-33-0	n-cyclohexyl-2-benzothiazolesulfenamide								
207	95-47-6	o-xylene								
208	95-48-7	o-cresol								
209	95-49-8	o-chlorotoluene								
210	95-50-1	o-dichlorobenzene								
211	95-51-2	o-chloroaniline								
212	95-53-4	o-toluidine								
213	95-54-5	1,2-phenylenediamine								
214	95-57-8	2-Chlorophenol								
215	95-63-6	1,2,4-trimethylbenzene								
216	95-64-7	3,4-dimethylaniline								
217	95-80-7	2,4-diaminotoluene								
218	95-95-4	2,4,5-trichlorophenol								
219	96-09-3	styrene oxide								
220	96-12-8	1,2-dibromo-3-chloropropane(DBCP)								
221	96-18-4	1,2,3-trichloropropane								
222	96-23-1	1,3-dichloro-2-propanol								
223	96-33-3	methyl acrylate								
224	96-45-7	ethylene thiourea								
225	97-00-7	1-chloro-2,4-dinitrobenzene								
226	97-17-6	ECP								
227	97-56-3	C.I. solvent yellow 3								
228	97-85-8	isobutyl isobutyrate								
229	97-88-1	n-butyl methacrylate								
230	97-93-8	triethylaluminum								
231	98-00-0	furfuryl alcohol								
232	98-07-7	benzoic trichloride								
233	98-29-3	tertiary butyl catechol (-4)								
234	98-82-8	cumene								
235	98-83-9	alpha-methyl styrene								
236	98-86-2	acetophenone								
237	98-87-3	benzal chloride								
238	98-88-4	benzoyl chloride								
239	98-95-3	nitrobenzene								
240	99-30-9	dichloran								
241	99-55-8	5-nitro-o-toluidine								
242	99-59-2	5-nitro-o-anisidine								
243	99-65-0	m-dinitrobenzene								
244	100-00-5	1-chloro-4-nitrobenzene								
245	100-01-6	p-nitroaniline								
246	100-02-7	p-nitrophenol								
247	100-21-0	terephthalic acid								
248	100-25-4	p-dinitrobenzene								

	CAS no	chemical name	Australia	Belgium	Canada	England & Wales	Japan	Netherlands	Scotland	USA	notes
249	100-37-8	2-(diethylamino)ethanol									
250	100-40-3	4-vinyl cyclohexene									
251	100-41-4	ethylbenzene									
252	100-42-5	styrene									
253	100-44-7	benzyl chloride									
254	100-52-7	benzaldehyde									
255	100-54-3	n-hexane									
256	100-61-8	n-methylaniline									
257	100-69-6	2-vinylpyridine									
258	100-75-4	n-nitrosopiperidine									
259	100-97-0	hexamethylenetetramine									
260	101-14-4	p,p'-methylenebis(2-chloroaniline)									
261	101-61-1	4,4'-methylenebis(n,n-dimethyl)benzenamine									
262	101-68-8	methylenebis(phenylisocyanate)									
263	101-77-9	p,p'-methylenedianiline									
264	101-80-4	4,4'-diaminodiphenyl ether									
265	101-84-8	diphenyl oxide									
266	101-90-6	diglycidyl resorcinol ether									
267	102-81-8	2-(di-n-butylamino)ethanol									
268	103-23-1	bis(2-ethylhexyl) adipate									
269	103-65-1	n-propylbenzene									
270	104-35-8	2-(p-nonylphenoxy) ethanol									
271	104-40-5	nonylphenol									
272	104-51-8	butylbenzene									
273	104-76-7	2-ethylhexanol									
274	105-16-8	2-(diethylamino)ethyl methacrylate									
275	105-59-9	methyl diethanolamine									
276	105-60-2	caprolactam									
277	105-67-9	2,4-dimethylphenol									
278	106-35-4	Ethyl butyl ketone									
279	106-42-3	p-xylene									
280	106-44-5	p-cresol									
281	106-46-7	p-dichlorobenzene									
282	106-47-8	p-chloroaniline									
283	106-49-0	p-toluidine									
284	106-50-3	p-phenylenediamine									
285	106-51-4	p-quinone									
286	106-88-7	1,2-butylene oxide									
287	106-89-8	epichlorohydrin									
288	106-91-2	2,3-epoxypropyl methacrylate									
289	106-92-3	1-allyloxy-2,3-epoxypropane									
290	106-93-4	1,2-dibromoethane									
291	106-97-8	n-butane									
292	106-98-9	1-butene									
293	106-99-0	1,3-butadiene									
294	107-01-7	2-butene									
295	107-02-8	acrolein									
296	107-03-9	1-propanethiol									
297	107-04-0	1-bromo-2-chloroethane									
298	107-05-1	allyl chloride									
299	107-06-2	1,2-dichloroethane									
300	107-11-9	allylamine									
301	107-13-1	acrylonitrile									
302	107-15-3	ethylenediamine									
303	107-18-6	allyl alcohol									
304	107-19-7	propargyl alcohol									
305	107-21-1	ethylene glycol									
306	107-22-2	glyoxal									
307	107-30-2	chloromethyl methyl ether									
308	107-31-3	methyl formate									
309	107-41-5	2-methylpentanediol									
310	107-87-9	methyl propyl ketone									
311	107-98-2	propylene glycol methyl ether									
312	108-05-4	vinyl acetate									
313	108-08-7	2,4 dimethyl pentane									
314	108-10-1	methyl isobutyl ketone									
315	108-11-2	4-methyl-2-pentanol									
316	108-21-4	isopropyl acetate									
317	108-24-7	acetic anhydride									
318	108-31-6	maleic anhydride									
319	108-38-3	m-xylene									
320	108-39-4	m-cresol									
321	108-42-9	m-chloroaniline									
322	108-45-2	1,3-phenylenediamine									
323	108-57-6	divinyl benzene									
324	108-60-1	2-oxybis(1-chloropropane)									
325	108-65-6	1-methoxy-2-propanol acetate									
326	108-67-8	1,3,5-trimethylbenzene									
327	108-77-0	2,4,6-trichloro-1,3,5-triazine									
328	108-83-8	di-isobutyl ketone									
329	108-87-2	methylcyclohexane									
330	108-88-3	toluene									
331	108-90-7	chlorobenzene									
332	108-91-8	cyclohexylamine									

CAS no	chemical name	Australia	Belgium	Canada	England & Wales	Japan	Netherlands	Scotland	USA	notes
333	108-93-0	cyclohexanol								
334	108-94-1	cyclohexanone								
335	108-95-2	phenol								
336	108-98-5	thiophenol								
337	108-99-6	3-methylpyridine								
338	109-06-8	2-methylpyridine								
339	109-60-4	n-propyl acetate								
340	109-66-0	n-pentane								
341	109-67-1	1-pentene								
342	109-77-3	malononitrile								
343	109-83-1	methyl ethanolamine								
344	109-86-4	2-methoxyethanol								
345	109-99-9	tetrahydrofuran								
346	110-12-3	methyl isoamyl ketone								
347	110-19-0	isobutyl acetate								
348	110-30-5	n,n-ethylene-bis-stearamide								
349	110-43-0	methyl amyl ketone								
350	110-49-6	2-methoxyethyl acetate								
351	110-54-3	n-hexane								
352	110-57-6	trans-1,4-dichloro-2-butene								
353	110-62-3	Pentanal (Valeraldehyde)								
354	110-80-5	2-ethoxyethanol								
355	110-81-6	ethyl disulphide								
356	110-82-7	cyclohexane								
357	110-85-0	piperazine								
358	110-86-1	pyridine								
359	110-91-8	morpholine								
360	111-15-9	2-ethoxyethyl acetate								
361	111-30-8	glutaraldehyde								
362	111-40-0	diethylene triamine								
363	111-42-2	diethanolamine								
364	111-44-4	bis(2-chloroethyl)ether								
365	111-46-6	diethylene glycol								
366	111-65-9	n-octane								
367	111-66-0	1-octene								
368	111-69-3	adiponitrile								
369	111-76-2	2-butoxyethanol								
370	111-84-2	nonane								
371	111-87-5	1-octanol								
372	111-91-1	bis(2-chloroethoxy)methane								
373	112-07-2	butyl cellosolve acetate								
374	112-27-6	trithylene glycol								
375	112-34-5	butyl carbitol								
376	112-40-3	n-dodecane								
377	112-55-0	1-dodecanethiol (n-dodecyl mercaptan)								
378	114-26-1	propoxur								
379	115-07-1	propylene								
380	115-10-6	dimethyl ether								
381	115-11-7	2-methylpropene (isobutylene)								
382	115-28-6	chlorendic acid								
383	115-29-7	endosulfan								
384	115-32-2	dicofol								
385	115-86-6	triphenyl phosphate								
386	115-96-8	tris(2-chloroethyl) phosphate								
387	116-06-3	aldicarb								
388	116-14-3	tetrafluoroethylene								
389	116-16-1	hexachloropropane								
390	117-81-7	bis(2-ethylhexyl) phthalate								
391	117-84-0	di-n-octyl phthalate								
392	118-74-1	hexachlorobenzene								
393	118-79-6	2,4,6-tribromophenol								
394	118-96-7	2,4,6-trinitrotoluene								
395	119-12-0	pyridaphenthion								
396	119-90-4	3,3'-dimethoxybenzidine								
397	119-93-7	3,3'-dimethylbenzidine								
398	120-12-7	anthracene								
399	120-36-5	2,4-DP								
400	120-58-1	isosafrole								
401	120-61-6	dimethyl terephthalate								
402	120-71-8	p-cresidine								
403	120-72-9	indole								
404	120-80-9	catechol								
405	120-82-1	1,2,4-trichlorobenzene								
406	120-83-2	2,4-dichlorophenol								
407	121-14-2	2,4-dinitrotoluene								
408	121-44-8	triethylamine								
409	121-69-7	n,n-dimethylaniline								
410	121-75-5	malathion								
411	122-14-5	mep								
412	122-34-9	simazine								
413	122-39-4	diphenylamine								
414	122-60-1	2,3-epoxypropyl phenyl ether								
415	122-66-7	1,2-diphenylhydrazine (hydrazobenzene)								
416	123-31-9	hydroquinone								

CAS no	chemical name	Australia	Belgium	Canada	England & Wales	Japan	Netherlands	Scotland	USA	notes
417	123-38-6	propionaldehyde								
418	123-39-7	methylformamide								
419	123-42-2	diacetone alcohol								
420	123-63-7	paraldehyde								
421	123-72-8	butyraldehyde								
422	123-86-4	n-butyl acetate								
423	123-91-1	1,4-dioxane								
424	124-04-9	hexanedioic acid								
425	124-09-4	1,6-hexamethylenediamine								
426	124-17-4	butyl carbitol acetate								
427	124-18-5	decane								
428	124-38-9	carbon dioxide (CO2)								
429	124-40-3	dimethylamine								
430	124-48-1	chlorodibromomethane								
431	124-73-2	halon 2402								
432	126-72-7	tris(2,3-dibromopropyl) phosphate								
433	126-73-8	tri-n-butyl phosphate								
434	126-86-3	2,4,7,9-tetramethyl-5-decyne-4,7-diol								
435	126-98-7	methacrylonitrile								
436	126-99-8	chloroprene								
437	127-18-4	tetrachloroethylene								
438	127-19-5	dimethyl acetamide								
439	128-03-0	potassium dimethyldithiocarbamate								
440	128-04-1	sodium dimethyldithiocarbamate								
441	128-37-0	2,6-di-t-butyl-4-methylphenol								
442	129-00-0	pyrene								
443	131-11-3	dimethyl phthalate								
444	132-27-4	sodium o-phenylphenoxide								
445	132-64-9	dibenzofuran								
446	133-06-2	captan								
447	133-07-3	folpet								
448	134-32-7	alpha-naphthylamine								
449	135-20-6	cupferron								
450	135-98-8	sec-butylbenzene								
451	136-45-8	dipropyl isocinchomeronate								
452	137-26-8	tetramethylthiuram disulphide								
453	137-30-4	ziram								
454	137-41-7	potassium n-methyldithiocarbamate								
455	137-42-8	metham sodium								
456	138-93-2	disodium cyanodithioimidocarbonate								
457	139-13-9	nitrotriacetic acid								
458	140-66-9	4-tert-octylphenol								
459	140-88-5	ethyl acrylate								
460	141-32-2	butyl acrylate								
461	141-43-5	monoethanolamine								
462	141-78-6	ethyl acetate								
463	142-29-0	cyclopentene								
464	142-59-6	nabam								
465	142-82-5	n-heptane								
466	144-54-7	carbam								
467	148-79-8	thiabenzazole								
468	149-30-4	2-mercaptobenzothiazole								
469	150-50-5	merphos								
470	151-56-4	ethyleneimine								
471	156-10-5	p-nitrosodiphenylamine								
472	156-43-4	p-phenetidine								
473	156-59-2	1,2-dichloroethylene-cis								
474	156-60-5	1,2-dichloroethylene-trans								
475	156-62-7	calcium cyanamide								
476	158-29-8	Trifluralin								
477	163-44-4	Tert-Butyl Methyl Ether (MTBE)								
478	189-55-9	dibenzo(a,i)pyrene								
479	191-24-2	benzo(g,h,i)perylene								
480	192-97-2	benzo(e)pyrene								
481	193-39-5	indeno(1,2,3-cd)pyrene								
482	194-59-2	7h-dibenzo(c,g)carbazole								
483	198-55-0	perylene								
484	205-82-3	benzo(j)fluoranthene								
485	205-99-2	benzo(b)fluoranthene								
486	206-44-0	fluoranthene								
487	207-08-9	benzo(k)fluoranthene								
488	208-96-8	acenaphthylene								
489	218-01-9	benzo(a)phenanthrene								
490	224-42-0	dibenz(a,j)acridine								
491	226-36-8	dibenz(a,h)acridine								
492	238-84-6	benzo(a)fluorene								
493	287-92-3	cyclopentane								
494	298-00-0	methyl parathion								
495	298-02-2	Phorate								
496	298-04-4	ethylthiometon								
497	298-81-7	methoxsalen								
498	300-76-5	naled								
499	301-12-2	oxydemeton methyl								
500	302-01-2	hydrazine								

CAS no	chemical name	Australia	Belgium	Canada	England & Wales	Japan	Netherlands	Scotland	USA	notes
501	306-83-2	HCFC-123								
502	309-00-2	aldrin								
503	314-40-9	bromacil								
504	319-84-6	alpha-hexachlorocyclohexane								
505	330-54-1	diuron								
506	330-55-2	linuron								
507	333-41-5	diazinon								
508	334-88-3	diazomethane								
509	353-59-3	halon 1211								
510	354-14-3	1,1,2,2-tetrachloro-1-fluoroethane								
511	354-23-4	1,2-dichloro-1,1,2-trifluoroethane								
512	354-25-6	1-chloro-1,1,2,2-tetrafluoroethane								
513	357-57-3	brucine								
514	420-04-2	Cyanamide								
515	422-56-0	3,3-dichloro-1,1,1,2,2-pentafluoropropane								
516	463-40-1	iso-propylbenzene								
517	463-49-0	propadiene								
518	463-58-1	carbonyl sulphide								
519	463-82-1	neopentane								
520	465-73-6	Isodrin								
521	470-90-6	CVP								
522	492-80-8	C.I. solvent yellow 34								
523	496-72-0	Diaminotoluene - All Isomers								
524	497-19-8	carbonic acid disodium salt								
525	497-26-7	2-methyl-1,3-dioxolane								
526	503-17-3	dimethyl acetylene								
527	507-55-1	1,3-dichloro-1,1,2,2,3-pentafluoropropane								
528	509-14-8	tetranitromethane								
529	510-15-6	chlorobenzilate								
530	528-29-0	o-dinitrobenzene								
531	533-74-4	dazomet								
532	534-52-1	4,6-dinitro-o-cresol								
533	540-59-0	1,2-dichloroethylene								
534	540-84-1	iso-octane								
535	541-41-3	ethyl chloroformate								
536	541-53-7	2,4-dithiourete								
537	541-73-1	1,3-dichlorobenzene								
538	542-75-6	1,3-dichloropropene								
539	542-75-6	1,3-dichloropropene; D-D								
540	542-76-7	3-chloropropionitrile								
541	542-88-1	bis(chloromethyl)ether								
542	542-92-7	cyclopentadiene								
543	547-63-7	methylisobutyrate								
544	552-30-7	1,2,4-benzenetricarboxylic 1,2-anhydride								
545	554-13-2	lithium carbonate								
546	556-52-5	2,3-epoxy-1-propanol								
547	556-61-6	methyl isothiocyanate								
548	563-12-2	ethion								
549	563-45-1	3-methyl-1-butene								
550	563-47-3	3-chloro-2-methyl-1-propene								
551	565-59-3	2,3 dimethyl pentane								
552	565-75-3	2,3,4 trimethylpentane								
553	569-64-2	c.i. basic green 4								
554	576-26-1	1,6-dimethylphenol								
555	584-84-9	toluene-2,4-diisocyanate								
556	590-01-2	butyl propionate								
557	590-18-1	cis-2-butene								
558	590-19-2	1,2-butadiene								
559	591-27-5	m-aminophenol								
560	591-78-6	2-hexanone								
561	591-93-5	1,4-pentadiene								
562	592-13-2	2,5 dimethyl hexane								
563	592-41-6	1-hexene								
564	593-60-2	vinyl bromide								
565	594-20-7	2,2-dichloropropane								
566	594-42-3	perchloromethyl mercaptan								
567	606-20-2	2,6-dinitrotoluene								
568	608-73-1	Hexachlorocyclohexane								
569	608-93-5	pentachlorobenzene								
570	612-00-0	1,1 diphenylethane								
571	612-83-9	3,3'-dichlorobenzidine dihydrochloride								
572	615-22-5	2-methylthio benzothiazole								
573	616-45-5	1,2-methylpyrrolidinone								
574	621-64-7	n-nitrosodi-n-propylamine								
575	624-41-9	2-methyl butyl acetate								
576	624-54-4	pentyl propionate								
577	624-64-6	trans-2-butene								
578	624-83-9	methyl isocyanate								
579	624-92-0	methyl disulphide								
580	628-63-7	amyl acetate								
581	628-96-6	nitroglycol								
582	630-08-0	carbon monoxide								
584	630-20-6	1,1,1,2-tetrachloroethane								

CAS no	chemical name	Australia	Belgium	Canada	England & Wales	Japan	Netherlands	Scotland	USA	notes
585	636-21-5	o-toluidine hydrochloride								
586	639-58-7	triphenyltin chloride								
587	640-15-3	thiometon								
588	684-93-5	n-nitroso-n-methylurea								
589	688-73-3	tributyltin								
590	688-84-6	2-ethylhexyl methacrylate								
591	689-97-4	vinyl acetylene								
592	709-98-8	propanil								
593	759-73-9	n-nitroso-n-ethylurea								
594	759-94-4	ethyl dipropylthiocarbamate								
595	760-23-6	1,2-dichlorobut-3-ene								
596	763-69-9	3-ethoxypropanoic acid ethyl ester								
597	764-41-0	1,4-dichloro-2-butene								
598	811-97-2	hydrofluorocarbon 134a								
599	818-61-1	2-hydroxyethyl acrylate								
600	822-06-0	hexamethylene diisocyanate								
601	834-12-8	ametryn								
602	842-07-9	c.i. solvent yellow 14								
603	872-05-9	1-decene								
604	872-50-4	n-methyl-2-pyrrolidone								
605	877-44-1	1,2,4-triethylbenzene								
606	924-16-3	n-nitrosodi-n-butylamine								
607	924-42-5	n-methylolacrylamide								
608	950-37-8	DMTP								
609	961-11-5	tetrachlorvinphos								
610	989-38-8	c.i. basic red 1								
611	1014-70-6	simetryn								
612	1113-02-6	Omethoate								
613	1114-71-2	pebulate								
614	1120-21-4	undecane								
615	1120-71-4	propane sultone								
616	1134-23-2	cycloate								
617	1163-19-5	decabromodiphenyl oxide								
618	1194-65-6	DBN								
619	1300-71-6	dimethyl phenol								
620	1305-62-0	calcium hydroxide (lime)								
621	1309-48-4	Magnesium oxide fume								
622	1310-58-3	potassium hydroxide								
623	1310-73-2	sodium hydroxide								
624	1313-27-5	molybdenum trioxide								
625	1314-20-1	thorium dioxide								
626	1314-23-4	zirconium oxide								
627	1314-62-1	divanadium pentaoxide								
628	1317-65-3	calcium carbonate								
629	1319-77-3	cresol (mixed isomers)								
630	1327-36-2	aluminosilicate								
631	1330-20-7	xylene (mixed isomers)								
632	1332-21-4	asbestos								
633	1336-36-3	polychlorinated biphenyls (PCBs)								
634	1344-00-9	silicic acid								
635	1344-28-1	Aluminum oxide (fibrous forms)								
636	1464-53-5	diepoxybutane								
637	1563-66-2	carbofuran								
638	1569-01-3	1-propoxy-2-propanol								
639	1582-09-8	trifluralin								
640	1634-04-4	methyl tert-butyl ether								
641	1643-20-5	n,n-dimethyldodecylamine n-oxide								
642	1649-08-7	1,2-dichloro-1,1-difluoroethane								
643	1689-84-5	bromoxynil								
644	1689-99-2	bromoxynil octanoate								
645	1717-00-6	HCFC-141b								
646	1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin								
647	1779-19-7	1,3,6 trioxocane								
648	1806-26-4	p-octylphenol								
649	1861-40-1	benfluralin								
650	1897-45-6	chlorothalonil								
651	1910-42-5	paraquat dichloride								
652	1912-24-9	atrazine								
653	1918-00-9	dicamba								
654	1918-02-1	picloram								
655	1918-16-7	propachlor								
656	1928-43-4	2,4-d 2-ethylhexyl ester								
657	1929-73-3	2,4-d butoxyethyl ester								
658	1929-82-4	nitrapyrin								
659	1982-69-0	sodium dicamba								
660	2025-88-4	Sulfur dioxide								
661	2032-65-7	methiocarb								
662	2104-64-5	EPN								
663	2155-70-6	tributyltin methacrylate								
664	2164-07-0	dipotassium endothall								
665	2164-17-2	fluometuron								
666	2212-67-1	molinate								
667	2251-62-4	sulfur hexafluoride								
668	2274-67-1	dimethylvinphos								



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669	2275-23-2									
670	2300-66-5									
671	2303-16-4									
672	2303-17-5									
673	2310-17-0									
674	2312-35-8									
675	2439-01-2									
676	2439-10-3									
677	2439-35-2									
678	2451-62-9									
679	2492-26-4									
680	2524-03-0									
681	2551-62-4									
682	2568-30-1									
683	2593-15-9									
684	2597-03-7									
685	2631-40-5									
686	2636-26-2									
687	2642-71-9									
688	2655-14-3									
689	2699-79-8									
690	2702-72-9									
691	2807-30-9									
692	2832-40-8									
693	2837-89-0									
694	2867-47-2									
695	2921-88-2									
696	3118-97-6									
697	3209-22-1									
698	3319-31-1									
699	3347-22-6									
700	3383-96-8									
701	3452-97-9									
702	3648-21-3									
703	3766-81-2									
704	3861-47-0									
705	3982-87-4									
706	4080-31-3									
707	4098-71-9									
708	4162-45-2									
709	4170-30-3									
710	4549-40-0									
711	4680-78-8									
712	4685-14-7									
713	5124-30-1									
714	5231-57-8									
715	5234-68-4									
716	5408-86-6									
717	5598-13-0									
718	5745-53-9									
719	6459-94-5									
720	6484-52-2									
721	6923-22-4									
722	7287-19-6									
723	7311-27-5									
724	7429-90-5									
725	7440-29-1									E&W; unit in kBq/year
726	7440-44-0									
727	7440-61-1									E&W; unit in kBq/year
728	7440-62-2									
729	7440-66-6									
730	7446-09-5									
731	7550-45-0									
732	7631-86-9									
733	7631-99-4									
734	7632-00-0									
735	7637-07-2									
736	7647-01-0									
737	7664-38-2									
738	7664-39-3									
739	7664-41-7									
740	7664-93-9									
741	7681-49-4									
742	7696-12-0									
743	7697-37-2									
744	7722-84-1									
745	7723-14-0									
746	7726-95-6									

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747	7757-79-1	potassium nitrate									
748	7757-82-6	sodium sulphate									
749	7758-01-2	potassium bromate									
750	7775-09-9	sodium chlorate									
751	7782-41-4	fluorine									
752	7782-49-2	selenium									
753	7782-50-5	chlorine									
754	7783-06-4	hydrogen sulphide									
755	7783-20-2	ammonium sulfate (solution)									
756	7786-34-7	mevinphos									
757	7789-75-5	calcium fluoride									
758	7791-25-5	sulfuryl chloride									
759	7803-51-2	phosphine									
760	8001-35-2	toxaphene									
761	8001-58-9	creosote									
762	8006-61-9	natural gasoline									
763	8008-20-6	kerosene									
764	8018-01-7	mancozeb									
765	8030-30-6	naphtha									
766	8032-32-4	petroleum naphtha (ligroine)									
767	8052-41-3	stoddard solvent									
768	8061-51-6	sodium lignosulphonate									
769	8065-48-3	Demeton									
770	9002-88-4	polyethylene									
771	9003-53-6	polystyrene									
772	9016-45-9	nonylphenol polyethylene glycol ether									
773	9016-87-9	polymeric diphenylmethane									
774	9036-19-5	poly(oxyethylene) octylphenyl ether									
775	10024-97-2	nitrous oxide									
776	10028-15-6	ozone									
777	10028-17-8	Tritium									E&W; unit in kBq/year
778	10034-93-2	hydrazine sulfate									
779	10035-10-6	hydrogen bromide									
780	10045-97-3	Caesium 137									E&W; unit in kBq/year
781	10049-04-4	chlorine dioxide									
782	10061-02-6	trans-1,3-dichloropropene									
783	10098-91-6	Yttrium 90									E&W; unit in kBq/year
784	10098-97-2	Strontium 90									E&W; unit in kBq/year
785	10102-43-9	nitrogen oxide									
786	10124-37-5	calcium nitrate									
787	10198-40-0	Cobalt 60									E&W; unit in kBq/year
788	10294-34-5	boron trichloride									
789	10380-28-6	oxine-copper									
790	10453-86-8	resmethrin									
791	11070-44-3	tetrahydromethylphthalic anhydride									
792	11104-93-1	nox (oxides of nitrogen)									
793	12002-48-1	Trichlorobenzenes									
794	12035-72-2	Nickel subsulfide									
795	12071-83-9	propineb									
796	12122-67-7	zineb									
797	12427-38-2	maneb									
798	12624-32-7	sox (oxides of sulphur)									
799	13194-48-4	ethoprop									
800	13356-08-6	fenbutatin oxide									
801	13463-39-3	Nickel carbonyl									
802	13463-40-6	iron pentacarbonyl									
803	13516-27-3	iminocytidine									
804	13593-03-8	quinalphos									
805	13684-56-5	desmedipham									
806	13966-29-5	Uranium 234									E&W; unit in kBq/year
807	13966-32-0	Sodium 22									E&W; unit in kBq/year
808	13967-48-1	Ruthenium 106									E&W; unit in kBq/year
809	13967-70-9	Caesium 134									E&W; unit in kBq/year
810	13967-71-0	Zirconium 95									E&W; unit in kBq/year
811	13967-76-5	Niobium 95									E&W; unit in kBq/year
812	13981-16-3	Plutonium 238									E&W; unit in kBq/year
813	13981-38-9	Cobalt 58									E&W; unit in kBq/year
814	13981-50-5	Cobalt 57									E&W; unit in kBq/year
815	13981-56-1	Fluorine 18									E&W; unit in kBq/year
816	13983-27-2	Krypton 85									E&W; unit in kBq/year
817	14119-09-6	Gallium 67									E&W; unit in kBq/year
818	14119-32-5	Plutonium 241									E&W; unit in kBq/year
819	14133-76-7	Technetium 99									E&W; unit in kBq/year
820	14158-27-1	Strontium 89									E&W; unit in kBq/year
821	14158-31-7	Iodine 125									E&W; unit in kBq/year
822	14163-25-8	Argon 41									E&W; unit in kBq/year
823	14234-35-6	Antimony 125									E&W; unit in kBq/year
824	14265-71-5	Selenium 75									E&W; unit in kBq/year
825	14269-63-7	Thorium 230									E&W; unit in kBq/year
826	14380-75-7	Promethium 147									E&W; unit in kBq/year
827	14391-99-2	Calcium-47									E&W; unit in kBq/year
828	14392-02-0	Chromium 51									E&W; unit in kBq/year
829	14596-12-4	Iron 59									E&W; unit in kBq/year
830	14596-37-3	Phosphorus 32									E&W; unit in kBq/year

	CAS no	chemical name	Australia	Belgium	Canada	England & Wales	Japan	Netherlands	Scotland	USA	notes
831	14762-75-5	Carbon 14									E&W; unit in kBq/year
832	14762-78-8	Cerium 144									E&W; unit in kBq/year
833	14859-67-7	Radon 222									E&W; unit in kBq/year
834	14932-42-4	Xenon 133									E&W; unit in kBq/year
835	15046-84-1	Iodine 129									E&W; unit in kBq/year
836	15117-53-0	Sulphur 35									E&W; unit in kBq/year
837	15117-96-1	Uranium 235									E&W; unit in kBq/year
838	15510-73-3	Curium 242									E&W; unit in kBq/year
839	15646-96-5	2,4,4-trimethylhexamethylene diisocyanate									
840	15715-08-9	Iodine 123									E&W; unit in kBq/year
841	15749-66-3	Phosphorus 33									E&W; unit in kBq/year
842	15766-00-4	Samarium 153									E&W; unit in kBq/year
843	15840-13-8	Erbium-169									E&W; unit in kBq/year
844	15972-60-8	alachlor									
845	16759-28-7	Sodium 24									E&W; unit in kBq/year
846	16938-22-0	2,2,4-trimethylhexamethylene diisocyanate									
847	17109-49-8	EDDP									
848	17302-63-5	methyl mercaptide									
849	17804-35-2	benomyl									
850	18854-01-8	isoxathion									
851	19044-88-3	oryzalin									
852	19666-30-9	oxydiazon									
853	20325-40-0	3,3'-dimethoxybenzidine									
854	20427-84-3	2-(2-(p-nonylphenoxy)ethoxy) ethanol									
855	20816-12-0	osmium tetroxide									
856	20859-73-8	aluminum phosphide									
857	21087-64-9	metribuzin									
858	21645-51-2	alumina hydrate									
859	21725-46-2	cyanazine									
860	22781-23-3	bendiocarb									
861	22967-92-6	methyl mercury									
862	23436-19-3	propylene glycol isobutyl ether									
863	23564-05-8	thiophanate-methyl									
864	23950-58-5	pronamide									
865	24017-47-8	Triazophos									
866	24267-56-9	Iodine 131									E&W; unit in kBq/year
867	25057-89-0	Bentazone									
868	25068-38-6	bisphenol A type epoxy resin									
869	25103-58-6	tert-dodecanethiol									
870	25154-52-3	n-nonylphenol (mixed isomers)									
871	25155-23-1	tris(dimethylphenyl) phosphate									
872	25167-67-3	butene									
873	25167-70-8	diiisobutylene									
874	25311-71-1	isofenphos									
875	25319-90-8	MCPA-thioethyl									
876	25321-14-6	dinitrotoluene (mixed isomers)									
877	25321-22-6	dichlorobenzene (mixed isomers)									
878	25340-17-4	diethylbenzene									
879	25376-45-8	diaminotoluene (mixed isomers)									
880	25377-72-4	Pentene (All Isomers)									
881	25377-83-7	octene (nos)									
882	25550-14-5	Ethyl Toluene (All Isomers)									
883	25551-13-7	Trimethylbenzene (All Isomers)									
884	25637-99-4	Hexabromocyclododecane									
885	26002-80-2	phenothrin									
886	26027-38-3	p-nonylphenol polyethylene glycol									
887	26087-47-8	IBP									
888	26471-62-5	toluenediisocyanate (mixed isomers)									
889	26628-22-8	sodium azide									
890	26635-64-3	iso-octane (nos)									
891	27177-05-5	nonylphenol hepta(oxyethylene)									
892	27177-08-8	nonylphenol nona(oxyethylene)									
893	27314-13-2	norflurazon									
894	27536-89-6	polyethylbenzene									
895	27986-36-3	nonylphenoxy ethanol									
896	28057-48-9	d-trans-allethrin									
897	28249-77-6	thiobencarb									
898	28407-37-6	C.I. direct blue 218									
899	28652-72-4	methyl diphenyl									
900	28679-13-2	ethoxynonyl benzene									
901	28804-88-8	dimethylnaphthalene									
902	29082-74-4	octachlorostyrene									
903	29232-93-7	pirimiphos methyl									
904	30174-67-5	carboxylated styrene butadiene latex									
905	30560-19-1	acephate									
906	30777-19-6	benzo(b)fluorene									
907	31218-83-4	propetamphos									
908	33089-61-1	amitraz									
909	34014-18-1	tebuthiuron									
910	34077-87-7	HCFC-123 and all isomers									
911	34123-59-6	Isoproturon									
912	34643-46-4	prothiofos									

CAS no	chemical name	Australia	Belgium	Canada	England & Wales	Japan	Netherlands	Scotland	USA	notes
913	35367-38-5	diflubenzuron								
914	35400-43-2	sulprofos								
915	35691-65-7	1-bromo-1-(bromomethyl)-1,3-propanedicarbonitrile								
916	36335-67-8	butamifos								
917	37251-69-7	oxirane, methyl-, polymer with oxirane, mono(nonylphenyl)ether								
918	39515-41-8	fenpropathrin								
919	40487-42-1	pendimethalin								
920	41198-08-7	profenofos								
921	41834-16-6	HCFC-122 and all isomers								
922	42397-64-8	1,6-dinitropyrene								
923	42397-65-9	1,8-dinitropyrene								
924	42874-03-3	oxyfluorfen								
925	43121-43-3	triadimefon								
926	50471-44-8	vincllozolin								
927	50512-35-1	isoprothiolane								
928	51207-31-9	2,3,7,8-tetrachlorodibenzofuran								
929	51218-45-2	metolachlor								
930	51218-49-6	pretilachlor								
931	51235-04-2	hexazinone								
932	51276-47-2	glufosinate								
933	51630-58-1	fenvalerate								
934	52315-07-8	cypermethrin								
935	52570-16-8	naproamilide								
936	52645-53-1	permethrin								
937	53404-60-7	dazomet, sodium salt								
938	55179-31-2	bitertanol								
939	55285-14-8	carbosulfan								
940	55290-64-7	dimethipin								
941	55335-06-3	(3,5,6-trichloro-2-pyridyl)oxyacetic acid; triclopyr								
942	55406-53-6	3-iodo-2-propynyl butylcarbamate								
943	56275-41-3	CFC-500								
944	57213-69-1	triclopyr triethylammonium salt								
945	58011-68-0	pyrazolynate								
946	59669-26-0	thiodicarb								
947	60168-88-9	fenarimol								
948	60207-90-1	propiconazole								
949	61432-55-1	dimepiperate								
950	61788-76-9	chloroalkanes								
951	61789-80-8	bis(hydrogenated tallow)dimethylammonium chloride								
952	61791-01-3	polyethylene glycol								
953	62476-59-9	acifluorfen, sodium salt								
954	62850-32-2	phenothiocarb								
955	63148-62-9	silicone								
956	63449-39-8	hydrocarbon & paraffin waxes								
957	63938-10-3	HCFC-124 and all isomers								
958	64440-88-6	polycarbamate								
959	64665-57-2	sodium benzotriazole (methyl-h-								
960	64741-48-9	mineral spirits								
961	64741-65-7	petroleum heavy alkylate naphtha								
962	64741-68-0	heavy aromatic naphtha								
963	64742-46-7	distillate hydrotreated middle								
964	64742-47-8	distillate hydrotreated light								
965	64742-48-9	naphtha (petroleum) hydrotreated								
966	64742-61-6	paraffin wax								
967	64742-65-0	lube oil								
968	64742-81-0	kerosene hydrodesulfurized								
969	64742-88-7	solvent naphthic middle aliphatic								
970	64742-89-8	solvent naphthic light aliphatic								
971	64742-94-5	solvent naphthic heavy aromatic								
972	64742-95-6	solvent naphthic light aromatic								
973	64902-72-3	chlorsulfuron								
974	64969-34-2	3,3'-dichlorobenzidine sulfate								
975	67485-29-4	hydramethylnon								
976	67762-41-8	linear primary alcohol blend c12-c13								
977	68037-64-9	dc-190 silicone based								
978	68085-85-8	cyhalothrin								
979	68130-50-7	adipic ester of mixed c6-10 alcohols								
980	68359-37-5	cyfluthrin								
981	68476-30-2	fuel oil #2 diesel fuel								
982	68515-60-6	c7 - c9 trimellitate ester								
983	68526-55-6	nonenes								
984	68527-24-2	naphtha petroleum light steam								
985	68855-54-9	diatomaceous earth								
986	68919-37-9	naphtha full range reformed								
987	68920-70-7	alkanes, c6-18, chloro								
988	68921-07-3	frac oil (distillate light catalytic cra								
989	68936-82-3	amylopectine								
990	69327-76-0	buprofezin								
991	69409-94-5	fluvalinate								
992	69806-50-4	fluazifop butyl								

	CAS no	chemical name	Australia	Belgium	Canada	England & Wales	Japan	Netherlands	Scotland	USA	notes
993	71561-11-0	pyrazoxyfen									
994	71751-41-2	abamectin									
995	72178-02-0	fomesafen									
996	72490-01-8	fenoxycarb									
997	72623-87-1	lubricating oil c20-50									
998	73250-68-7	mefenacet									
999	73763-70-3	perlite									
1000	74051-80-2	sethoxydim									
1001	74115-24-5	clofentezine									
1002	76578-14-8	quizalofop-ethyl									
1003	77458-01-6	pyraclifos									
1004	77501-63-4	lactofen									
1005	79622-59-6	fluazinam									
1006	82657-04-3	bifenthrin									
1007	82692-44-2	benzofenap									
1008	84852-15-3	nonylphenol, industrial									
1009	85535-84-8	alkanes, c10-13, chloro									
1010	85785-20-2	esprocarb									
1011	86598-92-7	imibenconazole									
1012	86954-36-1	Americium 241									E&W; unit in kBq/year
1013	88230-35-7	oxo-hexyl acetate									
1014	88671-89-0	myclobutanil									
1015	88678-67-5	pyributicarb									
1016	89269-64-7	ferimzone									
1017	90982-32-4	chlorimuron ethyl									
1018	96489-71-3	pyridaben									
1019	96491-05-3	thetylchlor									
1020	100784-20-1	halosulfuron-methyl									
1021	101200-48-0	tribenuron methyl									
1022	102851-06-9	fluvalinate									
1023	106917-52-6	flusulfamide									
1024	108419-32-5	oxo-octyl acetate									
1025	112410-23-8	tebufenozide									
1026	119168-77-3	tebufenpyrad									
1027	119446-68-3	difenoconazole									
1028	120068-37-3	fipronil									
1029	122008-85-9	cyhalofop-butyl									
1030	125306-83-4	cafenstrole									
1031	125521-93-9	alkyl ketone dimer									
1032	127564-92-5	dichloropentafluoropropane									
1033	133637-20-6	tetraethylbenzene									
1034	134098-61-6	fenpyroximate									
1035	NA-01	aluminum and compounds									
1036	NA-02	ammonia (total)									
1037	NA-03	antimony and its compounds									USA; its compounds
1038	NA-04	arsenic and its compounds									USA; its compounds JPN; its inorganic compounds
1039	NA-05	barium and its compounds									USA; its compounds JPN; its water-soluble compounds
1040	NA-06	beryllium and its compounds									USA; its compounds
1041	NA-07	boron and its compounds									
1042	NA-08	cadmium and its compounds									USA; its compounds
1043	NA-09	certain glycol ethers									
1044	NA-10	chlorophenols									
1045	NA-11	chlorotrifluoroethane; HCFC-133									
1046	NA-12	chromium and its compounds									USA; its compounds JPN; reported separately chromium(IV) compounds and chromium(III) compounds AUS; reported separately chromium(IV) compounds and
1047	NA-13	cobalt and its compounds									USA; its compounds
1048	NA-14	copper and its compounds									USA; its compounds JPN; its water-soluble compounds (except complex salts)
1049	NA-15	cyanide compounds									CAN; ionic JPN; its inorganic compounds (except complex salts and cyanates) AUS; its inorganic
1050	NA-16	dibromotetrafluoroethane; halone-									
1051	NA-17	dichloropentafluoropropane; HCFC-225									
1052	NA-18	dichlorotetrafluoroethane; CFC-114									
1053	NA-19	diisocyanates									
1054	NA-20	dioxins									BEL, JPN, E&W; unit in g-TEQ/year AUS, BEL, CAN, E&W, USA; not included co-PCB JPN; included co-PCB
1055	NA-21	ethylenebisdithiocarbamic acid, salts and esters									
1056	NA-22	Fluorine and inorganic compounds									JPN; hydrogen fluoride and its water-soluble salts
1057	NA-23	lead and its compounds									USA; its compounds

	CAS no	chemical name	Australia	Belgium	Canada	England & Wales	Japan	Netherlands	Scotland	USA	notes
1058	NA-24	manganese and its compounds									USA; its compounds
1059	NA-25	mercury and its compounds									USA; its compounds
1060	NA-26	molybdenum and its compounds									
1061	NA-27	n-alkylbenzenesulfonic acid and its salts (alkyl c=10-14)									
1062	NA-28	nickel and its compounds									USA; its compounds JPN; reported separately from their respective elements
1063	NA-29	nicotine and salts									
1064	NA-30	nitrate compounds									
1065	NA-31	nitrate ion in solution at ph >= 6.0									
1066	NA-32	organic tin compounds									USA; tributyltin methacrylate, bis(tributyltin) oxide CAN; tributyltin E&W; tributyltin compounds, triphenyltin compounds E&W; as Benzo(a)pyrene
1067	NA-33	polycyclic aromatic compounds									
1068	NA-34	poly(oxyethylene) alkyl ether (alkyl c=12-15)									
1069	NA-35	polybrominated biphenyls									
1070	NA-36	polychlorinated alkanes									
1071	NA-37	selenium and its compounds									USA; its compounds
1072	NA-38	silver and its compounds									USA; its compounds JPN; its water-soluble compounds
1073	NA-39	strychnine and salts									
1074	NA-40	tetrachlorodifluoroethane; CFC-112									
1075	NA-41	thallium and its compounds									USA; its compounds
1076	NA-42	uranium and its compounds									
1077	NA-43	warfarin and salts									
1078	NA-44	zinc and its compounds									USA; its compounds JPN; its water-soluble compounds
1079	NA-45	CFC,H(C)FC and Halons									BEL; HFCs only E&W; CFCs, Halons, HCFCs, HFCs
1080	NA-46	Chemical oxygen demand									
1081	NA-47	Chlorides									
1082	NA-48	Chlorobenzenes									
1083	NA-49	Chloroparaffins (C1-C3)									
1084	NA-50	Coarse dust									
1085	NA-51	Dithiocarbamates									
1086	NA-52	Drins(Aldrin,Dieldrin)									
1087	NA-53	Extractable chlorinated org.									
1088	NA-54	Fine dust (PM10)									
1089	NA-55	Fluorides									
1090	NA-56	Halogenated organic compounds									
1091	NA-57	Hydrocarbons Aliph. Halogenated									
1092	NA-58	Hydrocarbons Aliph. Non-halogenated									
1093	NA-59	Hydrocarbons Non-halogenated									
1094	NA-60	Mineral oils									
1095	NA-61	N - total									
1096	NA-62	NMVOG(non-methane volatile organic compounds)									
1097	NA-63	Oxides of sulphur (as SO2)									
1098	NA-64	Oxides of nitrogen (as NO2)									
1099	NA-65	P - total									
1100	NA-66	PAH (10 of VROM)									
1101	NA-67	PAH (6 of Borneff)									
1102	NA-68	PAH Halogenated									
1103	NA-69	PAH Non-halogenated									
1104	NA-70	Phenols									
1105	NA-71	Phthalates									
1106	NA-72	Strontium comp. (as Sr)									
1107	NA-73	Sulphates (as SO4)									
1108	NA-74	Tetrachloroethane									
1109	NA-75	Tin compounds									
1110	NA-76	Trichloroethane									
1111	NA-77	VOC(volatile organic compounds)									
1112	NA-78	Vanadium compounds									
1113	NA-79	Invalid									
1114	NA-80	Mixture									
1115	NA-81	Trade secret chemical									
1116	NA-82	Benzene, Toluene, Ethylbenzene, Xylenes									
1117	NA-83	Chlorine and inorganic compounds									BEL; as HCl E&W; as HCl
1118	NA-84	Total organic carbon									BEL, E&W; as total C or COD/3
1119	NA-85	PFCs									
1120	NA-86	Chloro-alkanes (C10-13)									
1121	NA-87	Brominated diphenylether									E&W; total as Br
1122	NA-88	Chloronitrotoluenes									
1123	NA-89	Hydrobromofluorocarbons (HBFCs)									
1124	NA-90	Nonylphenol Ethoxylates									
1125	NA-91	Octylphenol Ethoxylates									
1126	NA-92	Octylphenols									
1127	NA-93	Tributyltin Compounds									

	CAS no	chemical name	Australia	Belgium	Canada	England & Wales	Japan	Netherlands	Scotland	USA	notes
1128	NA-94	Triphenyltin Compounds									
1129	NA-95	Particulate Matter - Total									
1130	NA-96	Long Chain (C18-28) Chlorinated Paraffins (LCCPs)									
1131	NA-97	2,4 D (Ester)									
1132	NA-98	2,4 D (Non-Ester)									
1133	NA-99	Zirconium 95 & Niobium 95									E&W; unit in kBq/year
1134	NA-100	Phosphorus 32 & Phosphorus 33									E&W; unit in kBq/year
1135	NA-101	Plutonium 239/240									E&W; unit in kBq/year
1136	NA-102	Neptunium 237									E&W; unit in kBq/year
1137	NA-103	Other Alpha Particulate									E&W; unit in kBq/year
1138	NA-104	Other Alpha-Emitting Radionuclides - Total									E&W; unit in kBq/year
1139	NA-105	Other Beta/Gamma									E&W; unit in kBq/year
1140	NA-106	Other Beta/Gamma Particulate									E&W; unit in kBq/year
1141	NA-107	Other Individual Acid Forming Gases									E&W; unit in kBq/year
1142	NA-108	Other Individual Organic Compounds									E&W; unit in kBq/year
1143	NA-109	Technetium 99m									E&W; unit in kBq/year
1144	NA-110	Thallium 201									E&W; unit in kBq/year
1145	NA-111	Plutonium Alpha									E&W; unit in kBq/year
1146	NA-112	Uranium Alpha									E&W; unit in kBq/year
1147	NA-113	Indium 111									E&W; unit in kBq/year
1148	NA-114	Total Alpha									E&W; unit in kBq/year
1149	NA-115	Total Alpha (Particulate)									E&W; unit in kBq/year
1150	NA-116	Total Beta									E&W; unit in kBq/year
1151	NA-117	Total Beta (Particulate)									E&W; unit in kBq/year
1152	NA-118	Total Beta/Gamma (Excl Tritium)									E&W; unit in kBq/year
1153	NA-119	Non-Special Waste									
1154	NA-120	Special Waste									
1155	NA-121	Unknown									
1156	NA-122	Waste Transfer									

## ANNEX 4

### Common PRTR chemicals in 8 countries/regions

	CAS no	chemical name	Australia	Belgium	Canada	England & Wales	Japan	Netherlands	Scotland	USA	notes
1	67-66-3	chloroform									
2	71-43-2	benzene									
3	75-09-2	dichloromethane									
4	107-06-2	1,2-dichloroethane									
5	NA-04	arsenic and its compounds									USA; its compounds JPN; its inorganic compounds
6	NA-08	cadmium and its compounds									USA; its compounds
7	NA-12	chromium and its compounds									USA; its compounds JPN; reported separately chromium(IV) compounds and chromium(III) compounds AUS; reported separately chromium(IV) compounds and
8	NA-14	copper and its compounds									USA; its compounds JPN; its water-soluble compounds (except complex salts)
9	NA-15	cyanide compounds									CAN; ionic JPN; its inorganic compounds (except complex salts and cyanates) AUS; its inorganic
10	NA-20	dioxins									BEL, JPN, E&W; unit in g-TEQ/year AUS, BEL, CAN, E&W, USA; not included co-PCB JPN; included co-PCB
11	NA-23	lead and its compounds									USA; its compounds
12	NA-25	mercury and its compounds									USA; its compounds
13	NA-28	nickel and its compounds									USA; its compounds JPN; reported separately from their respective elements
14	NA-44	zinc and its compounds									USA; its compounds JPN; its water-soluble compounds



## ANNEX 5

### Matching list between categories of Japan/the Netherlands' diffuse sources and industry sector code in the database

category of diffuse sources		industry sector code in the database
Japan	Netherlands	
small-sized enterprises	small and medium-sized enterprises	each industry sector to which small or small and medium-sized enterprises are corresponded
non-subject industry sectors ex) agriculture construction		each industry sector to which non-subject industry sectors are corresponded ex) agriculture, hunting and related service activities construction
households	consumers and product use	home/office
mobile source	traffic and transport	mobile source
	agriculture	agriculture, hunting and related service activities
	natural sources	natural sources
	other sources	nonclassifiable establishments

## ANNEX 6

### Expressions of disposal and treatment in the US and Canada

Expressions of the categories of Disposal, Treatment in the US

Expressions of Disposal in Canada

#### Disposal

- M10 Storage Only
- M41 Solidification/Stabilization  
- Metals and Metal Category Compounds only
- M62 Wastewater Treatment (Excluding POTW)  
- Metals and Metal Category Compounds only
- M63 Surface Impoundment
- M64 Other Landfills
- M65 RCRA Subtitle C Landfills
- M71 Underground Injection
- M73 Land Treatment
- M79 Other Land Disposal
- M90 Other Off-site Management
- M94 Transfer to Waste Broker - Disposal
- M99 Unknown

#### Treatment

- M40 Solidification/Stabilization
- M50 Incineration/Thermal Treatment
- M54 Incineration/Insignificant Fuel Value
- M61 Wastewater Treatment (Excluding POTW)
- M69 Other Waste Treatment
- M95 Transfer to Waste Broker - Waste Treatment

#### Disposal Operations

- D1 Deposit into or onto land, (e.g., landfill, etc.)
- D2 Land treatment, (e.g., biodegradation of liquid or sludgy discards in solids, etc.)
- D3 Deep injection, (e.g., injection of pumpable discards into wells, salt domes or naturally occurring repositories, etc.)
- D4 Surface impoundment, (e.g., placement of liquid or sludge discards into pits, ponds or lagoons, etc.)
- D5 Specially engineered landfill, (e.g., placement into lined discrete cells which are capped and isolated from one another and the environment, etc.)
- D6 Release into a water body except seas/oceans
- D7 Release into seas/oceans including sea-bed insertion
- D8 Biological treatment not specified elsewhere in this Appendix which results in final compounds or mixtures which are discarded by means of any of the operations in Appendix 5.A
- D9 Physico chemical treatment not specified elsewhere in this Appendix which results in final compounds or mixtures which are discarded by means of any of the operations in Appendix 5.A (e.g., evaporation, drying, calcination, etc.)
- D10 Incineration on land
- D11 Incineration at sea
- D12 Permanent storage (e.g., emplacement of containers in a mine, etc.)
- D13 Blending or mixing prior to submission to any of the operations in Appendix 5.A
- D14 Repackaging prior to submission to any of the operations in Appendix 5.A
- D15 Storage pending any of the operations in Appendix 5.A

D8 & D9: treatment

Other: disposal

## ANNEX 7

### Reporting Thresholds in each country

Country	Name of System	Reporting Period	Reporting Thresholds Activity/Use of Chemicals	Number of Employees	Other Thresholds
Australia	National Pollutant Inventory	1-Jul to 30-Jun	Three reporting thresholds exist to determine if facilities are required to report to the NPI. Some substances have more than one reporting threshold. The thresholds are: Category 1 and 1a: Use of a substance. Threshold is 10 tonnes per year except for TVOC, a category 1a substance, which has a threshold of 25 tonnes per year Category 2a and 2b: Fuel combustion and energy use. Category 2a (400 tonnes per year) requires 8 substances to be reported. Category 2b requires all category 2a substances and 13 additional substances to be reported. Category 3: Emissions of Total Nitrogen and Total Phosphorus. Total N is reported if more than 15 tonnes per year of Total N is emitted and Total P is reported if more than 3 tonnes per year of Total P is emitted.	Not a NPI reporting threshold	Facilities are not required to report to the NPI unless the industry to which they belong has a industry handbook published. All handbooks are on the Internet at: www.npi.gov.au.
Belgium	EPER (European Pollutant Emission Register)	1-Jan to 31-Dec	The reporting threshold values are given both for emission to air and to water in kg/year.		Based on information on operators of facilities
Canada	National Pollutant Release Inventory	1-Jan to 31-Dec	Part 1 substances: substances that were manufactured, processed or otherwise used in a quantity of 10 tonnes or more; Part 2 substances: substances that were manufactured, processed or otherwise used in a quantity of 5 kg or more; Part 3 substances: substances that were accidentally manufactured and the sum of all the substances listed in Part 3 released on-site or transferred off-site is 50 kg or more; Part 4 substances: activity based threshold, see the Note 1 below.  Note 1: Activities that trigger reporting for Part 4 substances (i) non-hazardous solid waste incineration of 100 tonnes or more of waste per year, including small combustion units, conical burners and beehive burners; (ii) biomedical or hospital waste incineration of 100 tonnes or more of waste per year; (iii) hazardous waste incineration; (iv) sewage sludge incineration; (v) base metals smelting; (vi) smelting of secondary aluminum; (vii) smelting of secondary lead; (viii) manufacturing of iron using a sintering process; (ix) operation of electric arc furnaces in steel foundries; (x) operation of electric arc furnaces in steel manufacturing; (xi) production of magnesium; (xii) manufacturing of portland cement; (xiii) production of chlorinated organic solvents or chlorinated monomers; (xiv) combustion of fossil fuel in a boiler unit, for the purpose of producing steam for the production of electricity, with a generating capacity of 25 MW or more; (xv) combustion of hog fuel originating from logs that were transported or stored in salt water in the pulp and paper sector; or (xvi) combustion of fuel in kraft liquor boilers used in the pulp and paper sector.	Employees worked a total of 20,000 hours or more in 2001 (could be equivalent to 10 or more full-time employees). Activities listed below under Note 2 do not require an employee threshold.  Note 2: Activities not requiring employee threshold: (a) non-hazardous solid waste incineration of 100 tonnes or more of waste per year, including small combustion units, conical burners and beehive burners; (b) biomedical or hospital waste incineration of 100 tonnes or more of waste per year; (c) hazardous waste incineration; (d) sewage sludge incineration; and (e) wood preservation.	Part 1 substances: concentration of the substance was equal to or greater than 1% by weight, unless the substance is a by-product; Part 3 substances: the facility was used for wood preservation using creosote and substances listed in Part 3 were released on-site or transferred off-site; Part 4 substances: the facility used pentachlorophenol for wood preservation. See also Note 3 below.  Note 3: The following activities grant exemption from reporting: (a) education or training of students, such as universities, colleges and schools; (b) research or testing; (c) maintenance and repair of transportation vehicles, such as automobiles, trucks, locomotives, ships or aircraft; (d) distribution, storage, or retail sale of fuels; (e) wholesale or retail sale of articles or products, if the substance is not released to the environment during normal use at the facility; (f) retail sale of the substance;  (g) growing, harvesting, or management of renewable natural resources, such as fisheries, forestry or agriculture, except processing or otherwise using renewable natural resources; (h) mining, except processing or otherwise using mined materials; (i) drilling or operating wells to obtain oil and gas products, except processing or otherwise using oil and gas products.
England & Wales	Pollution Inventory -Data is split according to the type of Authorisation (Permit) used to regulate the industry. IPC - Integrated Pollution Control WIA - Water Industries Act RAS - Radioactive Substances	1-Jan to 31-Dec	The reporting threshold values are given both for emission to air and to water in kg/year or kBq/year.		Based on information on operators of facilities
Japan	Pollutant Releases and Transfers Register	1-Apr to 31-Mar	Specified Class I Designated Chemical Substances :0.5 ton or more of quantity of any of it is handled in business activities in the respective fiscal year Class I Designated Chemical Substances: one ton or more of quantity of any of it is handled in business activities in the respective fiscal year ("five ton" in the period of two years after the enforcement )	21 or more full-time employees	The business shall have a specific facility specified of the Law Concerning Special Measures Against Dioxins. Etc.
the Netherlands	Emission Inventory System	1-Jan to 31-Dec	The reporting threshold values are given both for emission to air and to water in kg/year.		
Scotland	Scottish PRTR	1-Jan to 31-Dec	Same as EPER (See Belgium)		Based on information on operators of facilities
USA	Toxics Release Inventory	1-Jan to 31-Dec	Facilities must submit a report for any EPCRA section 313 chemical, which is not listed as a PBT chemical, that is manufactured or processed at the facility in excess of 25,000 pounds or otherwise used in excess of 10,000 pounds per toxic chemical or category over the calendar year. Facilities must report PBT chemicals that are manufactured, processed or otherwise used as specified below: Aldrin; 100pounds, benzo(g,h,i)perylene; 10pounds, chlordane; 10pounds, dioxin & dioxin like compound; 0.1grams, heptachlor; 10 pounds, isodrin; 10pounds, lead (this lower threshold does not apply to lead when contained in stainless steel, brass or bronze alloy); 100pounds, lead compounds; 100pounds, mercury; 10pounds, mercury compounds; 10pounds, methoxychlor; 100pounds, octachlorostyrene; 10pounds, pendimethalin; 100pounds, polycyclic aromatic compounds category; 100pounds, tetrabromobisphenol A; 100pounds, toxaphene; 10pounds, trifluralin; 100pounds	10 or more full-time employees	

## ANNEX 8

### Criteria of selecting for PRTR chemicals in each country

#### (1) Australia

Summary of Criteria	Detail of Criteria		
	Toxicity		Data sources for the toxicity
	Classification of toxicity	Criteria of the toxicity	
<p>Substances are included in the NPI based on their risk of doing harm to human health or the environment. The assessment of risk was carried out by the NPI Technical Advisory Panel.</p> <p>Their work is fully documented in their report 'National Pollutant Inventory Technical Advisory Panel Final Report to National Environment Protection Council'. This report is on the Internet at <a href="http://www.npi.gov.au/publications/tap/index.html">www.npi.gov.au/publications/tap/index.html</a>.</p>	<p>Risk = Hazard x Exposure</p> <p>Hazard is a score from 0 to 3 which is the sum of the human health and environment scores which are both from 0 to 3 as outlined below.</p>		
<p>Human health scores. Four elements of human health are given a rating of 0 to 3.</p> <p>The 3 chronic factors are averaged to obtain a single chronic factor between 0 and 3.</p> <p>The acute and overall chronic factors are then averaged.</p> <p>This provides the 'Health hazard' score between 0 and 3.</p>	<p>Acute Toxicity</p>	<p>2.2.1 Acute Toxicity</p> <p>The following EC Risk Phrases were applied in arriving at a score for acute toxicity effects on human health. As risk phrases for human health effects are well developed the default score from PAAN was not often applied.</p> <p>High '3' (Very Toxic) - was assigned if the substance was described by one of the EC Risk Phrases R26 to R28 and R35:            R26 - Very toxic by inhalation;            R27 - Very toxic in contact with skin;            R28 - Very Toxic if swallowed; or            R35 - Causes severe burns.            Default - as scored by PAAN.</p> <p>Medium '2' (Toxic) - EC Risk Phrases R23 to R25 and R34:            R23 - Toxic by inhalation;            R24 - Toxic in contact with skin;            R25 - Toxic if swallowed; or            R34 - Causes burns.</p> <p>Default - as scored by PAAN.</p> <p>Low '1' (Harmful) - EC Risk Phrases R20 to R22, R36 to R38 and R65:            R20 - Harmful by inhalation;            R21 - Harmful in contact with skin;            R22 - Harmful if swallowed            R36 - Irritating to eyes;            R37 - Irritating to respiratory system;            R38 - Irritating to skin; or            R65 - Harmful if taken in lungs.            Default - as scored by PAAN.</p> <p>Zero - evidence indicating negligible Acute Toxicity; no EC Risk Phrases and no evidence or LD50 greater than or equal to 5000.</p>	<p>The scores for human health effects are based on the EC Risk Phrases (as defined in the European Commission Directive reproduced in Appendix VI ), and on other toxicity data as indicated, with the original PAAN scores used only where other information is lacking.</p> <p>For an explanation of the terms used in assigning the score, see Appendix V - Acronyms and Abbreviations and Glossary of Terms.</p>

Summary of Criteria	Detail of Criteria	
	Toxicity	
	Classification of toxicity	Criteria of the toxicity
		Data sources for the toxicity
	Chronic toxicity	<p>Just as for acute toxicity, chronic toxicity scores are arrived at by applying EC risk phrases, with the PAAN scores retained as defaults.</p> <p>High '3' (Very Toxic):  R39 - Danger of very serious irreversible effects; and Default - Adequate evidence in humans and/or two animal species of chronic health effects;  - Sufficient human or animal evidence of developmental toxicity;  - Adequate evidence in humans and/or two animal species of neurotoxicity.;  - USEPA categories 1 to 5 on heritable mutations; or  - MED £ 10.</p> <p>Medium '2' (Toxic):  R33 - Danger of cumulative effect;  R42 - May cause sensitisation by inhalation; or  R43 - May cause sensitisation by skin contact.  Default - suggestive evidence in humans and/or two animal species of chronic health effects;  - Insufficient evidence, but with some data indicating possible developmental effects;  - Suggestive evidence of neurotoxicity effects;  - USEPA category 6; or  - 10 &lt; MED £ 100.</p> <p>Low '1' (Harmful):  - Limited evidence or no evidence proving negligible effect;  - USEPA categories 7 and 8; or  - MED &gt; 100.</p> <p>Zero  - Sufficient human or animal evidence indicating a lack of developmental toxicity; or  - Adequate evidence for negligible chronic effects.</p>
	Carcinogenicity	<p>Scoring for carcinogenicity is based on consideration of EC Risk Phrases using the categories developed by the International Agency for Research on Cancer (IARC) as a default. In applying risk phrases, sub-categories have been used to provide adequate sensitivity for scoring.</p> <p>High '3' - EC Risk phrases R45 (category 1) and R49 (category 1):  R45 (category 1) - may cause cancer - there is sufficient evidence to establish a causal association between human exposure and the development of cancer;  R46 (category 1) - may cause heritable genetic damage (no entries recorded); or  R49 - as for R45(c1) but also - may cause cancer by inhalation.</p> <p>Default - IARC categories 1 and 2a (part with epidemiological evidence).</p> <p>Medium '2' - EC Risk phrases R45 (category 2), R49 (category 2) and R46:  R45 (category 2) - may cause cancer - should be regarded as if they cause cancer;  R49 (category 2) - as for R45 (c2) but also - may cause cancer by inhalation; or  R46 (category 2) - may cause heritable genetic damage.</p> <p>Default - IARC category 2b (part no epidemiological evidence).</p> <p>Low '1' - EC Risk Phrases R40 (category 3):  R40 (category 3 or M3) - Possible risk of irreversible effects - specifically substances which cause concern for humans owing to pos  Default - IARC category 3.</p> <p>Zero - Adequate evidence indicating negligible effects from appropriate animal tests;  - No EC Risk Phrases; or  - IARC category 4.</p>

Summary of Criteria	Detail of Criteria		
	Toxicity		
	Classification of toxicity	Criteria of the toxicity	Data sources for the toxicity
	Reproductive Toxicity	<p>Reproductive toxicity is a collector for a range of toxicological effects including teratogenicity, embryotoxicity and foetotoxicity, effects on fertility, effects on lactation, and endocrine effects such as oestrogen and androgen disruption effects. Specifically EC Risk phrases for the following scores, and the PAAN defaults, have been used.</p> <p>High '3' -  R60 (category 1) - known to impair fertility; or  R61 (category 1) - known to cause harm to the unborn child.  Default - Positive evidence.</p> <p>Note also that no substance entered into the list has scored a 3.</p> <p>Medium '2' -  R60 (category 2) - May impair fertility; or  R61 (category 2) - May cause harm to the unborn child.  Default - Known or probable positive evidence.</p> <p>Low '1' - EC Risk Phrases R63 and R62:  R64 - May cause harm to breast feeding babies;  R63 - Possible risk of harm to the unborn child; or  R62 - Possible risk of impaired fertility.  Default - Possible positive evidence.</p> <p>Zero - Known, probable or possible negative evidence.</p>	<p>The scores for human health effects are based on the EC Risk Phrases (as defined in the European Commission Directive reproduced in Appendix VI ), and on other toxicity data as indicated, with the original PAAN scores used only where other information is lacking.</p> <p>For an explanation of the terms used in assigning the score, see Appendix V - Acronyms and Abbreviations and Glossary of Terms.</p>
<p>Environment scores. Four elements of environment hazard are considered: acute toxicity, chronic toxicity, persistence and bioaccumulation. The last three aspects (chronic toxicity, persistence and bioaccumulation) are combined to provide a single chronic toxicity score.</p> <p>The acute and chronic toxicity score are averaged to obtain a single environment hazard score between 0 and 3.</p>	Acute Toxicity	<p>Acute toxicity was measured by the appropriate risk phrase (see below) based on toxicity to aquatic organisms. In general, aquatic organisms are more sensitive to chemical effects than are terrestrial organisms, and it is thus appropriate to use such criteria in the general case. If no information was available from the risk phrases then the default criteria were used.</p> <p>High '3' (Very Toxic) - EC Risk Phrase R50: Very toxic to aquatic organisms.  Default - Aquatic LC 50 &lt; 100ppb;  - Mammalian or avian LD 50 &lt; 5mg/kg; or  - Avian 5-day dietary LC 50 &lt; 20ppm.</p> <p>Medium '2' (Toxic) - EC Risk Phrase R51, R54 and R55  R51: Toxic to aquatic organisms;  R54: Toxic to flora; or  R55: Toxic to fauna.  Default: - 100 ppb &lt; aquatic LC 50 &lt; 10 ppm;  - 5 mg/kg &lt; mammalian or avian LD 50 &lt; 500 mg/kg;  or  - 20ppm &lt; avian 5 day dietary LC 50 &lt; 200 ppm.</p> <p>Low '1' (Harmful) - EC Risk Phrase R52: Harmful to aquatic organisms.  Default - Aquatic LC 50 &gt; 10ppm;  - Mammalian or avian LD 50 &gt; 500 mg/kg; or  - Avian 5-day dietary LC 50 &gt; 200ppm.</p> <p>Zero - evidence is available indicating negligible effect.</p>	
	Chronic toxicity	<p>High '3' (Very Toxic)  - Aquatic MATC &lt; 10ppb;  - Mammalian or avian MATC &lt; 2ppm; or  - Plant EC 50 &lt; 100ppb.</p> <p>Medium '2' (Toxic)  - 10ppb &lt; aquatic MATC &lt; 100ppb;  - 2ppm &lt; mammalian or avian MATC &lt; 200ppm; or  - 100ppb &lt; plant EC 50 &lt; 1ppm.</p> <p>Low '1' (Harmful)  - Aquatic MATC &gt; 100ppb;  - Mammalian or avian MATC &gt; 200ppm;  - Plant EC 50 &gt; 1ppm.</p> <p>Zero - evidence is available indicating negligible effect.</p>	<p>A range of tests was used to generate a single score for chronic toxicity, persistence, and bioaccumulation. In the first instance, the chronic toxicity criteria applied by the EC in risk phrases R53 and R58 incorporate some degree of chronic toxicity, persistence and bioaccumulation, so application of the risk phrase is equivalent to generating a combined score.</p>

Summary of Criteria	Detail of Criteria		
	Toxicity		
	Classification of toxicity	Criteria of the toxicity	Data sources for the toxicity
	Persistence	<p>High '3' - Aquatic LC 50 &lt; 1ppm plus continuous or repeated (C/R) releases or one-time release with chemical half-life &lt; 14 days;  - Aquatic MATC &lt; 100ppb plus C/R releases or one-time release with chemical half-life &lt; 4 days;  - Mammalian or avian LD 50 &lt; 1mg/kg plus C/R releases or one-time release with chemical half-life &lt; 14 days;  - Mammalian or avian MATC &lt; 20ppm or plant EC 50 &lt; 1ppm, plus C/R or one-time release with chemical half-life &lt; 4 days; or  - Avian 5 day dietary LC 50 &lt; 200ppm plus C/R or one-time release with chemical half-life &lt; 14 days.  Medium '2' - 1ppm &lt; aquatic LC 50 &lt; 10ppm plus C/R or one-time release with chemical half-life &lt; 14 days;  - 100ppb &lt; aquatic MATC &lt; 1ppm plus C/R or one-time release with chemical half-life &lt; 4 days;  - 50 mg/kg &lt; mammalian or avian LD 50 &lt; 500 mg/kg plus C/R or one-time release with chemical half-life &lt; 14 days;  - 20ppm &lt; mammalian or avian MATC &lt; 200ppm or 1ppm &lt; plant EC 50 &lt; 10ppm, plus C/R releases or one-time release with chemical half-life &lt; 4 days; or  - 200ppm &lt; avian 5 day dietary LC 50 &lt; 2,000ppm plus C/R releases or one time release with chemical half-life &lt; 14 days.  Low '1' - Aquatic LC 50 &gt; 10ppm plus continuous or repeated C/R or one-time release with chemical half-life &lt; 14 days;  - Aquatic MATC &gt; 1ppm plus C/R or one-time release with chemical half-life &lt; 4 days;  - Mammalian or avian LD 50 &gt; 500 mg/kg plus C/R releases of one-time release with chemical half-life &lt; 14 days;  - Mammalian or avian MATC &gt; 200ppm or plant EC 50 &gt; 10ppm, plus C/R or one-time release with chemical half-life &lt; 4 days; or  - Avian 5-day dietary LC 50 &gt; 2,000 ppm plus C/R or one-time release with chemical half-life &lt; 14 days.  Zero - evidence is available indicating negligible persistence in the environment.</p>	A range of tests was used to generate a single score for chronic toxicity, persistence, and bioaccumulation. In the first instance, the chronic toxicity criteria applied by the EC in risk phrases R53 and R58 incorporate some degree of chronic toxicity, persistence and bioaccumulation, so application of the risk phrase is equivalent to generating a combined score.
	Bioaccumulation	<p>High '3' - Aquatic LC 50 &lt; 10ppm plus BCF &lt; 1,000 or measured log P&lt;4.35 or estimated log P&lt;5.5;  - Aquatic MATC &lt; 100ppb plus BCF &lt; 1,000 or measured log P&lt;4.35 or estimated log P&lt;5.5;  - Mammalian or avian LD 50 &lt; 200 mg/kg plus BCF or BAF &lt; 1,000 or measured log P&lt;4.35 or estimated log P&lt;5.5;  - Mammalian or avian MATC &lt; 20ppm or plant EC 50 10ppm, plus BCF or BAF &lt; 1,000 or measured log P&lt;4.35 or estimated log P&lt;5.5; or  - Avian 5 day dietary LC 50 &lt; 500 ppm plus BCF or BAF &lt; 1,000 or measured log P&lt;4.35 or estimated log P&lt;5.5.  Medium '2' - 10ppm &lt; aquatic LC 50 &lt; 100ppm plus BCF &lt; 1,000 or measured log P&lt;4.35 or estimated log P&lt;5.5 or  - 100ppb &lt; aquatic MATC &lt; 1ppm plus BCF &lt; 1,000 or measured log P&lt;4.35 or estimated log P&lt;5.5 or  - 200 mg/kg &lt; mammalian or avian LC 50 &lt; 2,000 mg/kg plus BCF or BAF &lt; 1,000 or measured log P&lt;4.35 or estimated log P&lt;5.5 or  - 200ppm &lt; mammalian or avian MATC &lt; 200ppm or 10ppm &lt; plant EC 50 &lt; 100ppm, plus BCF or BAF &lt; 1,000 or measured log P&lt;4.35 or estimated log P&lt;5.5; or  - 500ppm &lt; avian 5-day dietary LC 50 &lt; 5,000ppm plus BCF or BAF &lt; 1,000 or measured log P&lt;4.35 or estimated log P&lt;5.5.  Low '1' - Aquatic LC 50 &gt; 100ppm plus BCF &lt; 1,000 or measured log P&lt;4.35 or estimated log P&lt;5.5;  - Aquatic MATC &gt; 1 ppm plus BCF &lt; 1,000 or measured log P&lt;4.35 or estimated log P&lt;5.5;  - Mammalian or avian LC 50 &gt; 2,000 mg/kg plus BCF or BAF &lt; 1,000 or measured log P&lt;4.35 or estimated log P&lt;5.5;  - Mammalian or avian MATC &gt; 200ppm or plant EC 50 &gt; 100ppm, plus BCF or BAF &lt; 1,000 or measured log P&lt;4.35 or estimated log P&lt;5.5  - Avian 5-day dietary LC 50 &gt; 5,000ppm plus BCF or BAF &lt; 1,000 or measured log P&lt;4.35 or estimated log P&lt;5.5.  Zero - evidence is available indicating negligible bioaccumulation.</p>	A range of tests was used to generate a single score for chronic toxicity, persistence, and bioaccumulation. In the first instance, the chronic toxicity criteria applied by the EC in risk phrases R53 and R58 incorporate some degree of chronic toxicity, persistence and bioaccumulation, so application of the risk phrase is equivalent to generating a combined score.
Exposure score from 0 to 3. It is derived from: A - point source release score B - diffuse release score C - quantity involved D - ultimate fate in the environment E - bioavailability in the environment	Exposure = (A + B) x E / 6 where B = C x D / 3		

Summary of Criteria	Detail of Criteria		
	Toxicity		
	Classification of toxicity	Criteria of the toxicity	Data sources for the toxicity
	A - point source release score	3 = high release and widespread release or use 2 = release or use in moderate amounts 1 = low release or use 0 = no release to environment or no use in Australia	The component scores generated for use in deriving exposure scores are the least precise of the data sets employed in the scoring process. Relatively little information is available about production volumes for many substances. Manufacturers and users are reluctant to release such data because, they say, in a comparatively small market, such information is commercially sensitive. Assistance was obtained from the Plastics and Chemicals Industries Association in making the estimates used here, but the panel is aware that better data could become available in the future and may lead to revision of some scores. The data should only be considered in the context of this report and not as general indicators of importation, production or use.
	B - diffuse release score		The component scores generated for use in deriving exposure scores are the least precise of the data sets employed in the scoring process. Relatively little information is available about production volumes for many substances. Manufacturers and users are reluctant to release such data because, they say, in a comparatively small market, such information is commercially sensitive. Assistance was obtained from the Plastics and Chemicals Industries Association in making the estimates used here, but the panel is aware that better data could become available in the future and may lead to revision of some scores. The data should only be considered in the context of this report and not as general indicators of importation, production or use.
	C - quantity involved	3 = high level production, generation, importation or use 2 = medium level production, generation, importation or use 1 = minimal level production, generation, importation or use 0 = no production, generation, importation or use	The component scores generated for use in deriving exposure scores are the least precise of the data sets employed in the scoring process. Relatively little information is available about production volumes for many substances. Manufacturers and users are reluctant to release such data because, they say, in a comparatively small market, such information is commercially sensitive. Assistance was obtained from the Plastics and Chemicals Industries Association in making the estimates used here, but the panel is aware that better data could become available in the future and may lead to revision of some scores. The data should only be considered in the context of this report and not as general indicators of importation, production or use.
	D - ultimate fate in the environment	3 = all product ends up in the environment 2 = significant environmental releases 1 = minor release or use as product 0 = all transformed or destroyed in manufacture	The component scores generated for use in deriving exposure scores are the least precise of the data sets employed in the scoring process. Relatively little information is available about production volumes for many substances. Manufacturers and users are reluctant to release such data because, they say, in a comparatively small market, such information is commercially sensitive. Assistance was obtained from the Plastics and Chemicals Industries Association in making the estimates used here, but the panel is aware that better data could become available in the future and may lead to revision of some scores. The data should only be considered in the context of this report and not as general indicators of importation, production or use.
	E - bioavailability in the environment	3 = widely bioavailable forms present in the environment (little influence of environmental factors in reducing toxicity). 2 = bioavailable forms in the environment under certain circumstances (for example acid soils, low redox, specific host sensitivity) 1 = rarely in bioavailable forms in the environment (most environmental factors ameliorate any toxicity) 0 = no bioavailable form (chemical or physical) known in the environment;	The component scores generated for use in deriving exposure scores are the least precise of the data sets employed in the scoring process. Relatively little information is available about production volumes for many substances. Manufacturers and users are reluctant to release such data because, they say, in a comparatively small market, such information is commercially sensitive. Assistance was obtained from the Plastics and Chemicals Industries Association in making the estimates used here, but the panel is aware that better data could become available in the future and may lead to revision of some scores. The data should only be considered in the context of this report and not as general indicators of importation, production or use.



**(2) Belgium (EPER)**

Summary of Criteria	Detail of Criteria
<p>The selecting criteria for putting substances are based on the environmental significance of industrial emissions of pollutants and are as follows:</p> <ul style="list-style-type: none"> <li>- considering the Annex III list of the IPPC Directive and making a differentiation between air and water;</li> <li>- including pollutants for which international reporting requirements already exist;</li> <li>- having a combination of individual chemicals and groups of substances;</li> <li>- limiting the number of pollutants for both air and water.</li> </ul>	<p>The pollutants of existing international inventories of CLRTAP/EMEP (Long Range Transboundary Air Pollution), UNFCCC (United Nations Framework Convention on Climate Change), CORINAIR (European air emission programme of the EEA), the Water Framework Directive (prolists of priority substances), and the OSPARCOM and HELCOM lists of hazardous substances have been taken into consideration. This enhances harmonisation of international reporting requirements for the Member States and benefits the comparability of emission data in different national inventories.</p>

### (3) Canada

Summary of Criteria
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Under the authority of Canadian Environmental Protection Act 1999, the Minister of the Environment may request information on substances listed in subsection 46(1) of the Act.
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#### (4) England & Wales

Summary of Criteria	Detail of Criteria
Substances on EPER (European Pollutant Emission Register) and/or substances of recognised concern to the environment or human health via the environment as	Is the Substance an EPER (European Pollutant Emission Register) Substance (Air)? If YES - include substance in Pollutin Inventory
	Is the Substance of recognised concern to the environment or human health via the environment as identified by one or more of the following drivers:  a) National Air Quality Strategy Substance with air quality objectives b) International reporting/reduction requirements: - United Nations Framework Convention for Climate Change (UNFCCC) Kyoto Protocol - United Nations Economic Commission for Euope (UNECE) Convention on Long-Range Transboundary Air Pollution - United Nations Environment Programme (UNEP) Montreal Protocol for ozone-depleting substances c) Volatile Organic Substance categorised as being of high or medium* harmfulness by the Environment Agency d) ESR (Existing Substances Regulation) substances of possible risk in UK e) Heavy metal of concern to the Environment Agency included under Annex 1 of the IPPC Directive  If YES to one or more of these drivers -  NEW SUBSTANCES: Is the substance likely to be emitted by industrial activities covered on the Pollution Inventory?  EXISTING SUBSTANCES: Is the substance released in significant*** quantities on the Pollution Inventory?
	Is the Substance an EPER (European Pollutant Emission Register) Substance (Water)? If YES - include substance in Pollutin Inventory
	Is the substance of recognised concern to the environment or human health via the environment as identified by one or more of the following drivers:  a) Included within the UK Surface Water (Dangerous Substances) Classification Regulations** b) Priority substance for action under the Water Framework Directive c) Chemical for Priority Action under the current OSPAR Convention for the protection of Marine environment of NE Atlantic reporting requirements d) ESR (Existing Substances Regulation) substances of possible risk in UK e) Significant point source failures of environmental standards as confirmed by Agency monitoring/assessment programmes

\*Volatile organic compounds (VOCs) were categorised according to their potential environmental harmfulness based on human health effects, Photochemical Ozone Creation Potential (POCP), Ozone Depletion Potential (ODP) and Global Warming Potential (GWP) (The Categorisation Of Volatile Organic Compounds, ITN/IPCX/05, Environment Agency/HMIP, APRIL 1996.)

\*\*The UK Surface Water (Dangerous Substances) Classification Regulations are covered by SI 2286 1989, SI 337 1992, SI 2560 1997 and SI 389 1998

\*\*\* Significant quantities are reported where a substance is reported at 10 or more sites at levels exceeding the Reporting Threshold

(5) Japan

Summary of Criteria	Detail of Criteria			Other criteria		
	Toxicity			Classification of data		
	Classification of toxicity	Criteria of the toxicity	Data sources for the toxicity	Classification of data	Criteria of the data	Data sources
The substances specified as hazardous to human health or the ecological system (including having ozone-depleting properties) that exist widely in the environment (have exposure) .	Carcinogenicity	<ul style="list-style-type: none"> <li>* IARC; 1, or 2A or 2B,</li> <li>* EPA; A, or B1 or B2</li> <li>* EU; 1, or 2</li> <li>* NTP; a, or b</li> <li>* ACGIH; A1, or A2 or A3</li> <li>* JSOH; 1, or 2A or 2B</li> </ul>	<ul style="list-style-type: none"> <li>* IARC; Evaluation by International Agency for Research on Cancer</li> <li>* EPA; Evaluation based on Guidelines for Carcinogen Risk Assessment by Environmental Protection Agency</li> <li>* EU; Evaluation based on 7th Amendments to Council Directive 67/548/EEC by European Union</li> <li>* NTP; Evaluation based on National Toxicology Program by National Institute of Environment and Health Sciences</li> <li>* ACGIH; Evaluation by American Conference of Governmental Industrial Hygienists</li> <li>* JSOH; Evaluation by Japan Society for Occupational Health</li> </ul>	The volume of manufacture and import for one year	<ul style="list-style-type: none"> <li>* Carcinogenic substances and agricultural chemicals; 10t or more</li> <li>* Ozone-depleting substances; 10t or more ( as past accumulation volume )</li> <li>* Other substances; 100t or more</li> </ul>	
	Mutagenicity	Evaluation by EU, EHC, BUA, ECETOC, SIDS, or METI, MHLW corresponds to following either: (1) Substance whose result in ' in vivo' test is positivity (2) Substance whose specific activity in reverse mutation test in bacteria is 1,000rev/mg or more, and whose result in chromosomal aberration test in cultured mammalian cells is positivity (3) Substance whose D20 value in chromosomal aberration test in cultured mammalian cells is 0.01mg/mL or less, and whose result in reverse mutation test in bacteria is positivity (4) Substance whose specific activity in reverse mutation test in bacteria is 100rev/mg or more, and whose D20 value in chromosomal aberration test in cultured mammalian cells is 0.1mg/mL or less (5) Substance accepted to have the toxicity more than of the same grade of (1)~(5), because its results in some ' in vitro' tests whose end-point(inducible of gene mutation, inducible of chromosomal aberration, characterization of DNA damage) differ is positivity	<ul style="list-style-type: none"> <li>* EU; Evaluation based on 7th Amendments to Council Directive 67/548/EEC by European Union</li> <li>* EHC(Environmental Health Criteria); Evaluation document by International Programme on Chemical Safety</li> <li>* BUA; Evaluation document by Advisory Committee on Existing Chemicals of Environmental Relevance of German Chemical Society</li> <li>* ECETOC; Evaluation by European Cinput for Ecotoxicology and Toxicology of Chemicals</li> <li>* SIDS(Screening information data sets); Report about the initial risk assessment of HPV which the OECD member nation creates</li> <li>* METI; Evaluation based on Chemical Safety Evaluation Sheets by Ministry of Economy, Trade and Industry, Japan</li> <li>* MHLW; Evaluation based on specific activity in reverse mutation test in bacteria, chromosomal aberration test in cultured mammalian cells by Ministry of Health, Labour and Welfare</li> </ul>	The detection in general environment	<ul style="list-style-type: none"> <li>* Substance detected from two or more areas by monitoring results for the past ten years</li> </ul>	the General Inspection Survey of Chemical Substances on Environmental Safety e.t.c.

Summary of Criteria	Detail of Criteria			Other criteria		
	Toxicity			Classification of data	Criteria of the data	Data sources
	Classification of toxicity	Criteria of the toxicity	Data sources for the toxicity			
	Oral chronic toxicity	* Water quality standard(WHO, EPA, Japan); 0.001mg/L or less, or 0.01mg/L or less, or 0.1mg/L or less * NOAEL/NOEL(IRIS etc.); 0.01mg/kg/day or less, or 0.1mg/kg/day or less, or 1mg/kg/day or less * LOAEL/LOEL(IRIS etc.); 0.1mg/kg/day or less, or 1mg/kg/day or less, or 10mg/kg/day or less * ADI(agricultural chemicals registered in Japan); 0.0001mg/kg/day or less, or 0.001mg/kg/day or less, or 0.01mg/kg/day or less	* WHO; WHO Guidelines for Drinking Water Quality * EPA; Water Quality Criteria set to Clean Water Act * IRIS(Integrated Risk Information System); Database built and maintained by EPA			
	Inhalation chronic toxicity	* Air quality standard(WHO, Japan); 0.001mg/m3 or less, or 0.01mg/m3 or less, or 0.1mg/m3 or less * NOAEL/NOEL(IRIS etc.); 0.1mg/m3 or less, or 1mg/m3 or less, or 0.1mg/m3 or less * LOAEL/LOEL(IRIS etc.); 1mg/m3 or less, or	* WHO; WHO Air Quality Guidelines for Europe * Japan; Environmental Quality Standard * IRIS(Integrated Risk Information System); Database built and maintained by EPA			
	Information of inhalation chronic toxicity calculated using work environmental permission concentration	* TWA(Gasses, ACGIH or JSOH); 0.1mg/m3 or less, or 1mg/m3 or less, 10mg/m3 or less * TWA(Particle matter etc., ACGIH or JSOH); 0.01mg/m3 or less, or 0.1mg/m3 or less, 1mg/m3 or less	* ACGIH; Evaluation by American Conference of Governmental Industrial Hygienists * JSOH; Evaluation by Japan Society for Occupational Health			
	Reproductive / developmental toxicity	* Spoiled generative function (risk(R) phrases(EU)); Repr.category1(R60), or Repr.category2(R60), or Repr.category3(R62), * Done damage to an embryo (risk(R) phrases(EU)); Repr.category1(R61), or Repr.category2(R61), or Repr.category3(R63)	* EU; Evaluation based on 7th Amendments to Council Directive 67/548/EEC by European Union			
	Sensitization	* JSOH (airway sensitizer); 1st group or 2nd group * ACGIH; SEN or Sensitization * Risk(R) phrases(EU); substances specified to R42	* ACGIH; Evaluation by American Conference of Governmental Industrial Hygienists * JSOH; Evaluation by Japan Society for Occupational Health * EU; Evaluation based on 7th Amendments to Council Directive 67/548/EEC by European Union			
	Ecological toxicity	* NOEC; 0.1mg/L or less, or 1mg/L or less * L(E)C50; 1mg/L or less, or 10mg/L or less * EU; substances specified to R50, or R51	* ECETOC; Evaluation by European Cinput for Ecotoxicology and Toxicology of Chemicals * AQUIRE(Aquatic Toxicity Information Retrieval); Database built by Environmental Research Laboratory at EPA * EU; Evaluation based on 7th Amendments to Council Directive 67/548/EEC by European Union			
	Ozone-depleting properties	* The substances specified to the Montreal Protocol on Substances that deplete the Ozone Layer				

(6) the Netherlands

Summary of Criteria
Determined by policy departments

## (7) USA

### Summary of Criteria

A chemical may be added if the Administrator determines, in his judgment, that there is sufficient evidence to establish any one of the following:

- (A) The chemical is known to cause or can reasonably be anticipated to cause significant adverse acute human health effects at concentration levels that are reasonably likely to exist beyond facility site boundaries as a result of continuous, or frequently recurring, releases.
- (B) The chemical is known to cause or can reasonably be anticipated to cause in humans -
  - (i) cancer or teratogenic effects, or
- (ii) serious or irreversible -
  - (I) reproductive dysfunctions,
  - (II) neurological disorders,
  - (III) heritable genetic mutations, or
- (IV) other chronic health effects.
- (C) The chemical is known to cause or can reasonably be anticipated to cause, because of -
  - (i) its toxicity,
  - (ii) its toxicity and persistence in the environment, or
  - (iii) its toxicity and tendency to bioaccumulate in the environment,a significant adverse effect on the environment of sufficient seriousness, in the judgment of the Administrator, to warrant reporting under this section. The number of chemicals included on the list described in subsection (c) of this section on the basis of the preceding sentence may constitute in the aggregate no more than 25 percent of the total