

## Form 2

### Dioxins and Furans

**Send filled form to  
UNEP Chemicals**

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<u><b>Country (or region)</b></u> THE NETHERLANDS	<u><b>Contact person</b></u> Dr. J.A. van Zorge
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**IMPORTANT: See instructions before filling the form**

<b>SECTION 1.</b> <b>Have studies been undertaken to identify the major sources of dioxins/furans in your country?</b>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<u>Comments:</u> before 1997, municipal waste incineration was a major source; after 1997, the former use of pentachlorophenol and wood incineration (domestic) are the major sources.	
<u>Reference:</u> 1- Emission of dioxins in the Netherlands; RIVM/TNO report nr. 770501018, febr.1994. 2- Dioxins and related compounds: Status and regulatory aspects; A.K.D. Liem and J.A. van zorge, Environ.Sci. & Pollut.Res. 2(1) 1995, 46-56. The dioxin problem in the Netherlands: Regulatory Approach and its Impact on Emission and Human exposure. Proceeding on the first International workshop on Risk Evaluation and Management of Chemicals, Yokohama, japan, January 1998, 26-34.	
<u>Date:</u>	

<b>SECTION 2.</b> <b>POTENTIAL OR IDENTIFIED MAJOR SOURCES OF DIOXINS AND FURANS IN YOUR COUNTRY</b>				
Sources	Quantity released per year	Relative importance Major/Minor	Alternative processes or techniques(e.g. cleaner technologies) known to you	Relative cost and effectiveness of the alternative techniques
Asphalt mixing installations		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		
By-products of chlorinated substances manufacture		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>	NB: production and use of PCP prohibited since 01-01-1991.	
Cable incineration		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>	Cutting cables into fine particles, separating metal and /PVC) coating by flotation.	
Chemical industry		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		



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Coal combustion		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		
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Contaminated pesticides		Major <input checked="" type="checkbox"/> Minor <input type="checkbox"/>	NB: Production and use of PCP are prohibited since 01-01-1991. Problem of former use of PCP.	
Forest/grass fire		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		
Fuel combustion		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		
High temperature processes		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		
Wastes incineration		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		
Industrial processes		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		
Ironworks		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		
Landfill gas incineration		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		
Non-Fe metal industry oil combustion		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		
Other contaminated chemicals (e.g. PCBs)		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		
Pesticides		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>	Except for former use of PCP (see contaminated pesticides)	
Sintering processes		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		
Sludge incineration		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		
Steel industry		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		
Traffic emissions		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		
Transportation		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		
Waste incineration (Hazardous)		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		
Waste incineration (Municipal solid)		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		
Waste incineration (Medical solid)		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		
Wood combustion		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		
Other: _____ _____		Major <input type="checkbox"/> Minor <input checked="" type="checkbox"/>		

### SECTION 3. RELEASE MONITORING

	Monitoring type	Short description( add separate page if needed)
<b>3.1</b>	Ambient air Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

3.2	Ground water Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
3.3	Surface water Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
3.4	Point air Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
3.5	Point water Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
3.6	Soil Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
3.7	Ecosystem Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
3.8	Human Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Human milk (every five years)
3.9	Agricultural commodity Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Milk from dairy farms and milk from supermarket (every five years)
3.10	Food products Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Food products (many food categories) from supermarket (every five years)

Comments: for the items 3.1-3.7 no monitoring program exists, but data are available from single studies.

Data Source: e.g.: Integrated Criteria Document Dioxins; RIVM report nr.710401032, Dec.1993.

#### SECTION 4. REGULATORY ACTIONS TAKEN TO CONTROL THE USE OF THE POP

	Action type to control the manufacture, importation, distribution in commerce, use or disposal	Short description (add separate page if needed)	Reference
4.1	Public health standards or regulations <input checked="" type="checkbox"/>	A standard of 6 pg TEQ/g of fat is set for cow's milk	Commodities Act: Regulation of dioxin level in cow's milk
4.2	Occupational standards or regulations <input type="checkbox"/>		
4.3	Environmental standards or regulations <input checked="" type="checkbox"/>	An emission standard has been set for incineration processes (municipal and hazardous waste): 0,1 ng TEQ/m <sup>3</sup> .	Decree on Air Emissions waste incineration (BLA 93)
4.4	Guidance Document <input type="checkbox"/>		
4.5	Voluntary programme <input type="checkbox"/>		
4.6	Other (e.g., Governmental order) <input checked="" type="checkbox"/>	A maximum level of 500mg/kg has been set for the organohalogen content of the fuels. A reduction of this level to 50 mg/kg has been proposed.	Decree on organohalogen content of fuels, 1989.
4.7	No action <input type="checkbox"/>	Ban on PCP; ban on 2,4,5-T; PCB decree	Pesticides Aact 1989; Pesticides ACT 1978; Chemical Substances Act 1991.

Comments:



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Data Source: