

Form 2

Dioxins and Furans

**Send filled form to
UNEP Chemicals**

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IMPORTANT: See instructions before filling the form

SECTION 1.				
Have studies been undertaken to identify the major sources of dioxins/furans in your country?	Yes <input type="checkbox"/> No <input type="checkbox"/>			
<u>Comments:</u>				
<u>Reference:</u> Norwegian Pollution Control Authority.				
<u>Date:</u>				
SECTION 2.				
POTENTIAL OR IDENTIFIED MAJOR SOURCES OF DIOXINS AND FURANS IN YOUR COUNTRY				
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	NA	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
By-products of chlorinated substances manufacture	NA	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Cable incineration	NA	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Chemical industry Hydro-Rafnes VCM Production	0.05 g	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Coal combustion	NA	Major <input type="checkbox"/> Minor <input type="checkbox"/>		

Contaminated pesticides	NA	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Forest/grass fire	NA	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Fuel combustion	NA	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
High temperature processes	NA	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Wastes incineration	NA	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Industrial processes Hydro-aluminium Hydro-magnesium	4.4 g	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Ironworks	NA	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Landfill gas incineration	NA	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Non-Fe metal industry oil combustion	NA	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Other contaminated chemicals (e.g. PCBs)	NA	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Pesticides	NA	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Sintering processes	NA	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Sludge incineration There is no sludge incineration in Norway.		Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Steel industry	NA	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Traffic emissions	NA	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Transportation	NA	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Waste incineration (Hazardous)	0.3 g	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Waste incineration (Municipal solid)	4.4 g	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Waste incineration (Medical solid)	NA	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Wood combustion	NA	Major <input type="checkbox"/> Minor <input type="checkbox"/>		
Other: _____ _____		Major <input type="checkbox"/> Minor <input type="checkbox"/>		

SECTION 3. RELEASE MONITORING

	Monitoring type	Short description(add separate page if needed)
3.1	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 checked="" type="checkbox"/> No <input type="checkbox"/>	Special investigation in river and surface water in fjord Frierfjorden. (1998 one-off survey)
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 checked="" type="checkbox"/> No <input type="checkbox"/>	Primarily higher organisms like shellfish and different marine species. Benthic fauna in sediments and zooplankton are investigated to check levels in the lower levels of the food chain.
3.8	Human Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	1) one-off survey of inhabitants of the Greenland-area. 2) crab-eating persons had more dioxins in the blood than persons that eat small amount of crab. 3) Some surveys on dioxins in breast milk. Relatively low levels compared to other countries.
3.9	Agricultural commodity Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
3.10	Food products Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Restrictions on consumption of fish and Shell-fish in the Greenland-fjords.

Comments: On permanent basis, only the Greenland-fjords are monitored yearly. We have also "one-off" investigations at different locations all around Norway.
For sediments, analysis are taken every five years in the Greenland-fjord system.

Data Source:

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"/>	See 3.10	
4.2	Occupational standards or regulations <input type="checkbox"/>		
4.3	Environmental standards or regulations <input type="checkbox"/>	Emission limit values given to industry individually.	SFT
4.4	Guidance Document <input type="checkbox"/>		
4.5	Voluntary programme <input type="checkbox"/>		
4.6	Other (e.g., Governmental order) <input type="checkbox"/>		
4.7	No action <input type="checkbox"/>		

Comments:

Data Source: