



EUROPEAN COMMISSION

ENVIRONMENT DIRECTORATE-GENERAL

Water, Chemicals & Cohesion

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ENTERPRISE AND INDUSTRY DIRECTORATE-GENERAL

Chemicals, Metals, Forest-based & Textile Industries

REACH

Brussels, 29 January 2010

Implementation of the restriction on PFOS under the Directive 2006/122/EC – electroplating applications and fire fighting foams containing PFOS stocks

Country Code	Country Name	Cr-VI electroplating process	Amount released	Existing stocks of fire-fighting foams containing PFOS
BE	Belgique/België	218 kg as mist suppressants and wetting agent	6 kg of PFOS	Around 4500 kg of PFOS (total quantity of foams is 663460 kg with a range of PFOS concentration between 0.5-6%).
BG	Bulgaria	Not used in processes subject under the derogation in paragraph 3 (c) of Directive 2006/122/EC		12.000 litres. Product imported in 1991 from Switzerland and stored by one company.
CZ	Česká Rep.	1) Mist suppressants (hard Cr plating) -278kg ('07); 165kg ('08); 2)Wetting agents in electroplating process: 188kg ('07) 172kg ('08). 23 kg expected to be used for both process in 2009.	The release is unknown	No stocks
DK	Danmark	Not used in processes subject under the		No stocks

		derogation in paragraph 3 (c) of Directive 2006/122/EC		
DE	Deutschland	1883 kg/y for all electroplating process.	6,7% released to water	6,87 t of PFOS in 916 tonnes of fire fighting foams.
EE	Eesti	Not used in processes subject under the derogation in paragraph 3 (c) of Directive 2006/122/EC		No stocks
EL	Elláda/Greece	Not used in processes subject under the derogation in paragraph 3 (c) of Directive 2006/122/EC		No stocks
ES	España	Not used in processes subject under the derogation in paragraph 3 (c) of Directive 2006/122/EC		2000 kg. of PFOS in the fire fighting foams
FR	France	Company 1: In 2008, 695 kg of PFOS were stocked. Dilutions were made in order to be used at different concentrations. The company did not use any of these PFOS solutions in 2008,		Company 2: 6360kg of foams (% of PFOS not reported); release to water = 0.5 kg/y during one extinguished application; release to soil 1.5 kg/y during one extinguished application. Company 3: 11105 kg of

		therefore there was no release to water and soil.		<p>foams (% of PFOS not reported); release to water = 0.5 kg/y during one extinguished application; release to soil 1.5 kg/y during one extinguished application.</p> <p>Company 4: 2315 litres of foams (0.5-1.% of PFOS which is equal to 12-35 kg); no use in 2008 which means no release to water and soil.</p> <p>Company 5: 16000 kg of foams ((% of PFOS not reported); no use in 2008 which means no release to water and soil.</p> <p>Company 6: 19.12 m³ of foams ((% of PFOS not reported); no use in 2008 which means no release to water and soil.</p>
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IE	Ireland	Not used in processes subject under the derogation in paragraph 3 (c) of Directive 2006/122/EC		No stocks
IT	Italia	Not used in processes subject under the derogation in paragraph 3 (c) of Directive 2006/122/EC		No stocks
CY	Kypros/Cyprus	Not used in processes subject under the derogation in paragraph 3 (c) of Directive 2006/122/EC		No stocks
LV	Latvija/Latvia	Not used in processes subject under the derogation in paragraph 3 (c) of Directive 2006/122/EC		No stocks
LT	Lietuva/Lithuania	Not used in processes subject under the derogation in paragraph 3 (c) of Directive 2006/122/EC		No stocks
LU	Luxembourg	Not used in processes subject under the derogation in paragraph 3		1.500 litre of fire fighting foams containing PFOS. This stock will be replaced by a

		(c) of Directive 2006/122/EC		product which does not contain PFOS.
HU	Magyarország/Hungary	Not used in processes subject under the derogation in paragraph 3 (c) of Directive 2006/122/EC		40200 litres of fire fighting foams containing PFOS (3-6% by weight)
MT	Malta	Not used in processes subject under the derogation in paragraph 3 (c) of Directive 2006/122/EC		No stocks
NL	The Netherlands	Wide range 65- 390 kg/y of the substance TEA-PFOS for metal plating surface treatment. The Dutch market share also products PFOS free which contain polyfluorosulfonic acid.	Emission factor to air and water are at present not available within the open literature. PFOS emissions to air are not known to be measured. An approach related to water emissions involves the use of carbon to capture the drops falling down when the material comes out of the bath. No quantitative estimation has been done.	18540 m ³ for foams with a shelf-life of 20 years (3300 m ³ at the airport and 3200 m ³ in chemical industrial related locations). After 2011 it is estimated that the remaining stocks will be 16222.5 m ³ .
AT	Österreich	Not used in processes subject under the derogation in paragraph 3 (c) of Directive		800 kg of PFOS containing in foams (1.5% of PFOS contained in 53.3 tonnes of

		2006/122/EC		foams)
PL	Polska	Not used in processes subject under the derogation in paragraph 3 (c) of Directive 2006/122/EC		14 t (FC 206), 16 t (FC602) (these tons are foams containing PFOS)
PT	Portugal	Not used in processes subject under the derogation in paragraph 3 (c) of Directive 2006/122/EC		No stocks
RO	Romania	Not used in processes subject under the derogation in paragraph 3 (c) of Directive 2006/122/EC		No stocks
SI	Slovenija	Wetting agent for Cr VI plating- 53,75 kg of pure in PFOS (2007), 65 kg (2008)		No stocks
SK	Slovak Republic	Not used in processes subject under the derogation in paragraph 3 (c) of Directive 2006/122/EC		No stocks

FI	Suomi/Finland	1) 5-20 kg/y of PFOS used as mist suppressants 2) 4-8 kg/y of PFOS used as wetting agents	<p>NB: Average value in waste water is 409 micrograms/l; 44% of PFOS removed from the waste water is treated as hazardous waste.</p> <p>The total release of PFOS to the surface water from the all metal plating plants corresponds to 5kg/y -16 kg/y</p>	177 kg of PFOS in foams for public fire service; 747 kg of PFOS in foams for private companies and 300 kg of PFOS in foams for Defense forces (2005)
SE	Sverige	250 kg of PFOS for CrVI electroplating process	The release is unknown. The surface treating companies using PFOS are covered by the IPPC.	No stocks
UK	United Kingdom	In 2008, 380 kg has been sold within UK. After July 2008 150 kg were used only as mist suppressant. Only the 80-90% of the 150 kg is used during the electroplating work.	Minimal amount discharged to water; insignificant loss to air.	No stocks