ANNEX VII

Technical provisions relating to installations and activities using organic solvents

PART 2

Thresholds and emission limit values

The emission limit values in waste gases shall be calculated at a temperature of 273,15 K, and a pressure of 101,3 kPa.

	Activity (solvent consumption threshold in tonnes/ year)	**Lower threshold (solvent consumption threshold in tonnes/ year)**	**Emission limit values in waste gases (mg C/ Nm^3)**	**Fugitive emission limit values (percentage of solvent input)**		**Total emission limit values**		**Special provisions**
				New installations	**Existing installations**	**New installations**	**Existing installations**	
1	Heatset web offset printing (> 15)	15—25 > 25	100 20	30 ([1]) 30 ([1])				([1]) Solvent residue in finished product is not to be considered as part of fugitive emissions.
2	Publication rotogravure (> 25)		75	10	15			
3	Other rotogravure, flexography, rotary screen printing, laminating or varnishing units (> 15) rotary screen printing on	15—25 > 25 > 30 ([1])	100 100 100	25 20 20				([1]) Threshold for rotary screen printing on textile and on cardboard.

	textile/ cardboard (> 30)					
4	Surface cleaning using compounds specified in Article 59(5). (> 1)	1—5 > 5	20 ([1]) 20 ([1])	15 10		([1]) Limit value refers to mass of compounds in mg/ Nm^3, and not to total carbon.
5	Other surface cleaning (> 2)	2—10 > 10	75 ([1]) 75 ([1])	20 ([1]) 15 ([1])		([1]) Installations which demonstrate to the competent authority that the average organic solvent content of all cleaning material used does not exceed 30 % by weight are exempt from application of these values.
6	Vehicle coating (< 15) and vehicle refinishing	> 0,5	50 ([1])	25		([1]) Compliance in accordance with point 2 of Part 8 shall be demonstrated based on 15 minute

								average measurements.
7	Coil coating (> 25)		50 ([1])	5	10			([1]) For installations which use techniques which allow reuse of recovered solvents, the emission limit value shall be 150.
8	Other coating, including metal, plastic, textile ([5]), fabric, film and paper coating (> 5)	5—15 > 15	100 ([1]) ([4]) 50/75 ([2]) ([3]) ([4])	25 ([4]) 20 ([4])				([1]) Emission limit value applies to coating application and drying processes operated under contained conditions. ([2]) The first emission limit value applies to drying processes, the second to coating application processes.
								([3]) For textile

						coating installations which use techniques which allow reuse of recovered solvents, the emission limit value applied to coating application and drying processes taken together shall be 150. ([4]) Coating activities which cannot be carried out under contained conditions (such as shipbuilding, aircraft painting) may be exempted from these values, in accordance with Article 59(3). ([5]) Rotary screen

						printing on textile is covered by activity No 3.
9	Winding wire coating (> 5)				10 g/kg ([1]) 5 g/kg ([2])	([1]) Applies for installations where average diameter of wire ≤ 0,1 mm. ([2]) Applies for all other installations.
10	Coating of wooden surfaces (> 15)	15—25 > 25	100 ([1]) 50/75 ([2])	25 20		([1]) Emission limit value applies to coating application and drying processes operated under contained conditions. ([2]) The first value applies to drying processes, the second to coating application processes.

11	Dry cleaning				20 g/kg ([1]) ([2])	([1]) Expressed in mass of solvent emitted per kilogram of product cleaned and dried. ([2]) The emission limit value in point 2 of Part 4 does not apply for this activity.
12	Wood impregnation (> 25)		100 ([1])	45	11 kg/m^3	([1]) Emission limit value does not apply for impregnation with creosote.
13	Coating of leather (> 10)	10—25 > 25 > 10 ([1])			85 g/m^2 75 g/m^2 150 g/m^2	Emission limit values are expressed in grams of solvent emitted per m^2 of product produced. ([1]) For leather coating activities

						in furnishing and particular leather goods used as small consumer goods like bags, belts, wallets, etc.
14	Footwear manufacture (> 5)				25 g per pair	Total emission limit value is expressed in grams of solvent emitted per pair of complete footwear produced.
15	Wood and plastic lamination (> 5)				30 g/m^2	
16	Adhesive coating (> 5)	5—15 > 15	50 ([1]) 50 ([1])	25 20		([1]) If techniques are used which allow reuse of recovered solvent, the emission limit value in waste gases shall be 150.

17	Manufacture of coating mixture, varnishes, inks and adhesives (> 100)	100—1 000 > 1 000	150 150	5 3	5 % of solvent input 3 % of solvent input	The fugitive emission limit value does not include solvent sold as part of a coatings mixture in a sealed container.
18	Rubber conversion (> 15)		20 ([1])	25 ([2])	25 % of solvent input	([1]) If techniques are used which allow reuse of recovered solvent, the emission limit value in waste gases shall be 150. ([2]) The fugitive emission limit value does not include solvent sold as part of products or mixtures in a sealed container.
19	Vegetable oil and animal fat				Animal fat: 1,5 kg/ tonne Castor: 3 kg/tonne	([1]) Total emission limit values

	extraction and vegetable oil refining activities (> 10)				Rape seed: 1 kg/ tonne Sunflower seed: 1 kg/tonne Soya beans (normal crush): 0,8 kg/tonne Soya beans (white flakes): 1,2 kg/ tonne Other seeds and other vegetable matter: 3 kg/tonne ([1]) 1,5 kg/tonne ([2]) 4 kg/tonne ([3])		for installations processing individual batches of seeds and other vegetable matter should be set by the competent authority on a case-by-case basis, applying the best available techniques. ([2]) Applies to all fractionation processes excluding de-gumming (the removal of gums from the oil). ([3]) Applies to de-gumming.
20	Manufacturing of pharmaceutical products (> 50)		20 ([1])	5 ([2])	15 ([2])	5 % of solvent input	15 % of solvent input	([1]) If techniques are used which allow reuse of recovered solvent, the emission limit value in

								waste gases shall be 150. ([2]) The fugitive emission limit value does not include solvent sold as part of products or mixtures in a sealed container.