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## 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)	Solvent consumption threshold in tonnes/year	Emission limit values in waste gases (mg C/Nm <sup>3</sup> )	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 <sup>(1)</sup> 30 <sup>(1)</sup>				<sup>(1)</sup> 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 <sup>(1)</sup>	100 100 100	25 20 20				<sup>(1)</sup> Threshold for rotary screen printing on textile and on cardboard.

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	textile/ cardboard (> 30)					
4	Surface cleaning using compounds specified in Article 59(5). (> 1)	1—5 > 5	20 <sup>(1)</sup> 20 <sup>(1)</sup>	15 10		<sup>(1)</sup> Limit value refers to mass of compounds in mg/ Nm <sup>3</sup> , and not to total carbon.
5	Other surface cleaning (> 2)	2—10 > 10	75 <sup>(1)</sup> 75 <sup>(1)</sup>	20 <sup>(1)</sup> 15 <sup>(1)</sup>		<sup>(1)</sup> 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 <sup>(1)</sup>	25		<sup>(1)</sup> Compliance in accordance with point 2 of Part 8 shall be demonstrated based on 15 minute

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						average measurements.
7	Coil coating (> 25)		50 <sup>(1)</sup>	5	10	<sup>(1)</sup> 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 <sup>(5)</sup> , fabric, film and paper coating (> 5)	5—15 > 15	100 <sup>(1)</sup> <sup>(4)</sup> 50/75 <sup>(2)</sup> <sup>(3)</sup> <sup>(4)</sup>	25 <sup>(4)</sup> 20 <sup>(4)</sup>		<sup>(1)</sup> Emission limit value applies to coating application and drying processes operated under contained conditions. <sup>(2)</sup> The first emission limit value applies to drying processes, the second to coating application processes.
						<sup>(3)</sup> For textile

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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.

<sup>(4)</sup> 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).

<sup>(5)</sup> Rotary screen

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

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11	Dry cleaning				20 g/kg <sup>(1)</sup> <sup>(2)</sup>	<sup>(1)</sup> Expressed in mass of solvent emitted per kilogram of product cleaned and dried. <sup>(2)</sup> The emission limit value in point 2 of Part 4 does not apply for this activity.
12	Wood impregnation (> 25)		100 <sup>(1)</sup>	45	11 kg/m <sup>3</sup>	<sup>(1)</sup> Emission limit value does not apply for impregnation with creosote.
13	Coating of leather (> 10)	10—25 > 25 > 10 <sup>(1)</sup>			85 g/m <sup>2</sup> 75 g/m <sup>2</sup> 150 g/m <sup>2</sup>	Emission limit values are expressed in grams of solvent emitted per m <sup>2</sup> of product produced. <sup>(1)</sup> 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 <sup>2</sup>	
16	Adhesive coating (> 5)	5—15 > 15	50 <sup>(1)</sup> 50 <sup>(1)</sup>	25 20		<sup>(1)</sup> If techniques are used which allow reuse of recovered solvent, the emission limit value in waste gases shall be 150.

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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 <sup>(1)</sup>	25 <sup>(2)</sup>	25 % of solvent input	<sup>(1)</sup> If techniques are used which allow reuse of recovered solvent, the emission limit value in waste gases shall be 150. <sup>(2)</sup> 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	<sup>(1)</sup> Total emission limit values



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	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 ( <sup>1</sup> ) 1,5 kg/tonne ( <sup>2</sup> ) 4 kg/tonne ( <sup>3</sup> )	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. ( <sup>2</sup> ) Applies to all fractionation processes excluding de-gumming (the removal of gums from the oil). ( <sup>3</sup> ) Applies to de-gumming.
20	Manufacturing of pharmaceutical products (> 50)	20 ( <sup>1</sup> )	5 ( <sup>2</sup> )	15 ( <sup>2</sup> )	5 % of solvent input	15 % of solvent input	( <sup>1</sup> ) If techniques are used which allow reuse of recovered solvent, the emission limit value in

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