Commission Regulation (EU) No 347/2010 of 21 April 2010 amending Commission Regulation (EC) No 245/2009 as regards the ecodesign requirements for fluorescent lamps without integrated ballast, for high intensity discharge lamps, and for ballasts and luminaires able to operate such lamps (Text with EEA relevance)

COMMISSION REGULATION (EU) No 347/2010

of 21 April 2010

amending Commission Regulation (EC) No 245/2009 as regards the ecodesign requirements for fluorescent lamps without integrated ballast, for high intensity discharge lamps, and for ballasts and luminaires able to operate such lamps

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Directive 2009/125/EC of the European Parliament and of the Council of 21 October 2009 establishing a framework for the setting of ecodesign requirements for energy-related products⁽¹⁾, and in particular Article 15(1) thereof,

After consulting the Ecodesign Consultation Forum,

Whereas:

- (1) After the adoption of Commission Regulation (EC) No 245/2009 of 18 March 2009 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for fluorescent lamps without integrated ballast, for high intensity discharge lamps, and for ballasts and luminaires able to operate such lamps, and repealing Directive 2000/55/EC of the European Parliament and of the Council⁽²⁾, it appeared that certain provisions of that Regulation should be amended in order to avoid unintended impacts on the availability and performance of the products covered by that Regulation.
- In addition, it is necessary to improve coherence, as regards the requirements on product information, between on the one hand Regulation (EC) No 245/2009 and on the other hand Commission Regulation (EC) No 244/2009 of 18 March 2009 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for non-directional household lamps⁽³⁾.
- (3) The measures provided for in this Regulation are in accordance with the opinion of the Committee established by Article 19(1) of Directive 2009/125/EC,

HAS ADOPTED THIS REGULATION:

Article 1

Amendments to Regulation (EC) No 245/2009

Annexes I, II, III and IV to Regulation (EC) No 245/2009 are amended as set out in the Annex to this Regulation.

Article 2

Entry into force

This Regulation shall enter into force on the first day following its publication in the *Official Journal of the European Union*.

It shall apply from 13 April 2010.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 21 April 2010.

For the Commission

The President

José Manuel BARROSO

ANNEX

Amendments in Annexes I, II, III and IV to Regulation (EC) No 245/2009

Annexes I, II, III and IV to Regulation (EC) No 245/2009 are amended as follows:

- 1. Annex I is amended as follows:
 - (a) the title is replaced by the following: Exemptions;
 - (b) the introductory sentence in point 1 is replaced by the following:

The following lamps shall be exempt from the provisions of Annex III, provided that the technical documentation file drawn up for the purposes of conformity assessment pursuant to Article 8 of Directive 2009/125/ EC states which of the technical parameters listed hereunder provide(s) a basis for their exemption:;

- (c) points 1(c) and 1(d) are replaced by the following:
 - (c) blended high intensity discharge lamps having:
 - 6 % or more of total radiation of the range 250-780 nm in the range of 250-400 nm; and
 - 11 % or more of total radiation of the range 250-780 nm in the range of 630-780 nm; and
 - 5 % or more of total radiation of the range 250-780 nm in the range of 640-700 nm;
 - (d) blended high intensity discharge lamps having:
 - the peak of the radiation between 315-400 nm (UVA) or 280-315 nm (UVB);;
- (d) point 2 is replaced by the following:
 - 2. The following products shall be exempt from the provisions of Annex III, provided that in all forms of product information it is stated that they are not intended for general lighting use within the meaning of this Regulation, or that they are intended for use in applications listed in points (b) to (e):
 - (a) products intended for use in applications other than general lighting and products incorporated into products which do not provide a general lighting function;
 - (b) lamps covered by the requirements of Directives 94/9/EC of the European Parliament and of the Council⁽⁴⁾ or Directive 1999/92/ EC of the European Parliament and of the Council⁽⁵⁾;
 - (c) emergency lighting luminaires and emergency sign luminaires within the meaning of Directive 2006/95/EC of the European Parliament and of the Council⁽⁶⁾.
 - (d) ballasts intended for use in luminaires defined in paragraph (c) and designed to operate lamps in emergency conditions;

(e) luminaires covered by the requirements of Directive 94/9/EC, Directive 1999/92/EC, Directive 2006/42/EC of the European Parliament and of the Council⁽⁷⁾, Council Directive 93/42/EEC⁽⁸⁾, Council Directive 88/378/EEC⁽⁹⁾ and luminaires integrated into equipment covered by these requirements.

The intended purpose shall be stated for each product in the product information, and the technical documentation file drawn up for the purposes of conformity assessment pursuant to Article 8 of Directive 2009/125/EC shall list the technical parameters that make the product design specific for the stated intended purpose.

- 2. Annex II is amended as follows:
 - (a) the first sentence is deleted;
 - (b) The following sentence is added to point 1(c):

'For the purposes of Table 6 in Annex III, the LSF shall be measured in high frequency operating mode with a switching cycle of 11h/1h.'

- (c) The following point (o) is added to point 3:
 - (o) "Blended lamp" means a lamp containing a mercury vapour lamp and an incandescent lamp filament connected in series in the same bulb.
- 3. Annex III is amended as follows:
 - (a) The following paragraph is added before Table 1:

Spiral-shaped double capped fluorescent lamps of all diameters equal to or larger than 16 mm (T5) shall comply with the requirements set out in Table 5 for T9 circular lamps.

(b) Table 2 is replaced by the following:

TABLE 2

Rated minimum efficacy values for single capped fluorescent lamps working on electromagnetic and electronic ballast

Small single parallel tube, lamp cap G23 (2 pin) or 2G7 (4		Double parallel tubes, lamp cap G24d (2		Triple parallel tubes, lamp cap GX24d (2 pin)	
pin)		pin) or G2	1 4q (4	or GX24q	(4
wattage(W)lu ef	ated minous ficacy m/W),	Nominal wattage(W	Rated /)luminous efficacy (lm/W),	Nominal wattage(W	Rated /)luminous efficacy (lm/W),

	100 h initial value		100 h initial value		100 h initial value
5	48	10	60	13	62
7	57	13	69	18	67
9	67	18	67	26	66
11	76	26	66		
4 legs in or lamp cap 2	2G10(4	Long singly parallel tu lamp cap 2	2G11(4		
Nominal wattage(V	Rated V)luminous efficacy (lm/W), 100 h initial value	Nominal wattage(V	Rated /)luminous efficacy (lm/W), 100 h initial value		
18	61	18	67		
24	71	24	75		
36	78	34	82		
		36	81		

(c) Table 3 is replaced by the following:

TABLE 3

Rated minimum efficacy values for single capped fluorescent lamps, working only on electronic ballast

Triple parallel tubes, lamp		Four parallel tubes, lamp cap GX24q(4		Long single parallel tube,		
cap GX24q(4				lamp cap 2G11(4		
pin)		• /		pin)	#	
Nominal wattage(W)	Rated luminous efficacy (lm/W),	Nominal wattage(W	Rated /)luminous efficacy (lm/W),	Nominal wattage(W	Rated /)luminous efficacy (lm/W),	

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	100 h initial value		100 h initial value		100 h initial value
32	75	57	75	40	83
42	74	70	74	55	82
57	75			80	75
70	74				

(d) Table 6 is replaced by the following:

TABLE 6

Deduction percentages for rated minimum efficacy values for fluorescent lamps with high colour temperature and/or high colour rendering and/or second lamp envelope and/or long life

Lamp parameter	Deduction from luminous efficacy at 25 °C
$Tc \ge 5~000~K$	-10 %
$95 \ge Ra > 90$	-20 %
Ra > 95	-30 %
Second lamp envelope	-10 %
Lamp Survival Factor ≥ 0,50 after 40 000 burning hours	-5 %

(e) In Annex III.1.1.B, the sentence

'The corrections defined for the first stage (Table 6) shall continue to apply' is replaced by

'The corrections (Table 6) and the specific requirements for spiral-shaped double capped fluorescent lamps defined for the first stage shall continue to apply.';

- (f) The title of Table 7 is replaced by the following: Table 7Rated minimum efficacy values for high pressure sodium lamps with $Ra \le 60$;
- (g) The title of Table 8 is replaced by the following:

 Table 8Rated minimum efficacy values for Metal Halide Lamps with Ra

 ≤ 80 and for high pressure sodium lamps with Ra > 60
- (h) The second paragraph of Annex III.1.1.C is replaced by the following:

Fluorescent lamps without integrated ballast shall be able to operate with ballasts of energy efficiency class A2 or more efficient ballasts in accordance with point 2.2 of Annex III. In addition they may also operate with ballasts of less efficient classes than A2.

(i) Table 11 is replaced by the following:

TABLE 11

Lamp	lumen	maintenance	factors	for	single	and	double	capped
fluores	cent lan	nps — Stage 2						

fluorescent lamps — Stage 2					
Lamp lumen maintenance factor	Burning hou	ırs			
Lamp types	2 000	4 000	8 000	16 000	
Double- Capped Fluorescent lamps operating on non-high frequency ballasts	0,95	0,92	0,9		
T8 Double- Capped Fluorescent lamps on high frequency ballast with warmstart	0,96	0,92	0,91	0,9	
Other Double- Capped Fluorescent lamps on high frequency ballast with warmstart	0,95	0,92	0,9	0,9	
Circular	0,8	0,74	_	_	
Single-Capped Fluorescent lamps operating on non-high frequency ballasts, T8 U-shaped double-capped fluorescent lamps and spiral-shaped	0,72 at 5 000	burning hours			

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double capped fluorescent lamps of all diameters equal to or larger than 16 mm (T5)				
Circular	0,85	0,83	0,8	_
Single- Capped Fluorescent lamps operating on high frequency ballasts	0,75 at 12 000	burning hours		
Other Single-Capped Fluorescent lamps operating on non-high frequency ballasts	0,85	0,78	0,75	_
Other Single-Capped Fluorescent lamps on high frequency ballast with warmstart	0,9	0,84	0,81	0,78

(j) The following introductory phrase and Table 11a is added after Table 11:

The following cumulative deductions shall be applied to the values in Table 11:

TABLE 11A

Deduction percentages for fluorescent lamp lumen maintenance requirements

Lamp parameter	Deduction from lamp lumen maintenance requirement
Lamps with $95 \ge Ra > 90$	At burning hours ≤ 8 000 h: − 5 % At burning hours > 8 000 h: − 10 %
Lamps with Ra > 95	At burning hours ≤ 4 000 h: − 10 % At burning hours > 4 000 h: − 15 %

Lamps with a colour temperature ≥ 5 000 K	-10 %
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(k) Table 12 is replaced by the following:

TABLE 12

Lamp survival factors for single and double capped fluorescent lamps — Stage 2 $\,$

Lamp survival factor	Burning hou	rs		
Lamp types	2 000	4 000	8 000	16 000
Double- Capped Fluorescent lamps operating on non-high frequency ballasts	0,99	0,97	0,9	
Double- Capped Fluorescent lamps on high frequency ballast with warmstart	0,99	0,97	0,92	0,9
Circular	0,98	0,77	_	_
Single-Capped Fluorescent lamps operating on non-high frequency ballasts, T8 U-shaped double-capped fluorescent lamps and spiral-shaped double capped fluorescent lamps of all diameters equal to or	0,50 at 5 000 l	ourning hours		

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larger than 16 mm (T5)				
Circular	0,99	0,97	0,85	
Single-Capped Fluorescent lamps operating on high frequency ballasts	0,50 at 12 000	burning hours		
Other Single-Capped Fluorescent lamps operating on non-high frequency ballasts	0,98	0,9	0,5	
Other Single-Capped Fluorescent lamps on high frequency ballast with warmstart	0,99	0,98	0,88	

(1) Table 13 is replaced by the following:

TABLE 13

Lamp lumen maintenance factors and lamp survival factors for high pressure sodium lamps — Stage 2

High pressure so category and bu measurement		Lamp lumen maintenance factor	Lamp survival factor
$P \le 75 \text{ W}$	Ra ≤ 60	> 0,80	> 0,90
LLMF and LSF measured at 12	Ra > 60	> 0,75	> 0,75
000 burning hours	all retrofit lamps designed to operate on high pressure mercury vapour lamp ballast	> 0,75	> 0,80
P > 75 W	Ra ≤ 60	> 0,85	> 0,90
LLMF and LSF measured at 16	Ra > 60	> 0,70	> 0,65

000 burning hours	all retrofit lamps designed to operate on high pressure mercury vapour lamp ballast	> 0,75	> 0,55
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The requirements in Table 13 for retrofit lamps designed to operate on high pressure mercury vapour lamp ballast shall be applicable until 6 years after the entry into force of this Regulation.;

- (m) Annex III.1.3(i) is replaced by the following:
 - (i) Ambient temperature inside the luminaire at which the lamp was designed to maximise its luminous flux. If this temperature is equal to or lower than 0 °C or equal to or higher than 50 °C, it shall be stated that the lamp is not suitable for indoor use at standard room temperatures.;
- (n) The following point (j) is added to point 1.3 of Annex III:
 - (j) For fluorescent lamps without integrated ballast, the energy efficiency index(es) of ballasts as defined in Table 17 with which the lamp can operate.;
- (o) Table 17 is replaced by the following:

TABLE 17

Energy efficiency index requirements for non-dimmable ballasts for fluorescent lamps

LAMP DATA					BALLAST EFFICIENCY (Plamp/Pinput) Non-dimmable					
Lamp type	- 1		ıl	A2 BAT	A2	A3	B1	B2		
			50 Hz	HF]					
	W		W	W						
T8	15	FD-15 E- G13-20		13,5	87,8 %	84,4 %	75,0 %	67,9 %	62,0 %	
Т8	18	FD-18- E- G13-20		16	87,7 %	84,2 %	76,2 %	71,3 %	65,8 %	
Т8	30	FD-30- E- G13-20		24	82,1 %	77,4 %	72,7 %	79,2 %	75,0 %	
Т8	36	FD-36- E- G13-20		32	91,4 %	88,9 %	84,2 %	83,4 %	79,5 %	

T8	38	FD-38-38,5 E- G13-26/1050	32	87,7 %	84,2 %	80,0 %	84,1 %	80,4 %
T8	58	FD-58-58 E- G13-26/1500	50	93,0 %	90,9 %	84,7 %	86,1 %	82,2 %
Т8	70	FD-70-69,5 E- G13-26/1800	60	90,9 %	88,2 %	83,3 %	86,3 %	83,1 %
TC-L	18	FSD-1818 E-2G11	16	87,7 %	84,2 %	76,2 %	71,3 %	65,8 %
TC-L	24	FSD-2424 E-2G11	22	90,7 %	88,0 %	81,5 %	76,0 %	71,3 %
TC-L	36	FSD-3636 E-2G11	32	91,4 %	88,9 %	84,2 %	83,4 %	79,5 %
TCF	18	FSS-1848 E-2G10	16	87,7 %	84,2 %	76,2 %	71,3 %	65,8 %
TCF	24	FSS-2424 E-2G10	22	90,7 %	88,0 %	81,5 %	76,0 %	71,3 %
TCF	36	FSS-3636 E-2G10	32	91,4 %	88,9 %	84,2 %	83,4 %	79,5 %
TC-D/DE	10	FSQ-1010 E- G24q=1 FSQ-10- I- G24d=1	9,5	89,4 %	86,4 %	73,1 %	67,9 %	59,4 %
TC-D/DE	13	FSQ-1313 E- G24q=1 FSQ-13- I- G24d=1	12,5	91,7 %	89,3 %	78,1 %	72,6 %	65,0 %
TC-D/DE	18	FSQ-1818 E- G24q=2 FSQ-18- I- G24d=2	16,5	89,8 %	86,8 %	78,6 %	71,3 %	65,8 %
TC-D/DE	26	FSQ-2626 E- G24q=3 FSQ-26- I- G24d=3	24	91,4 %	88,9 %	82,8 %	77,2 %	72,6 %

	,					,			
TC- T / TE	13	FSM-1 GX246 FSM-1 I- GX246	q=1 3-	12,5	91,7 %	89,3 %	78,1 %	72,6 %	65,0 %
TC- T / TE	18	FSM-1 GX246 FSM-1 I- GX246	q=2 8-	16,5	89,8 %	86,8 %	78,6 %	71,3 %	65,8 %
TC- T / TC- TE	26	FSM-2 E- GX246 FSM-2 I- GX246	q=3 26-	24	91,4 %	88,9 %	82,8 %	77,5 %	73,0 %
TC- DD / DDE	10	FSS-10 E- GR100 FSS-10 L/P/ H- GR100	0 -	9,5	86,4 %	82,6 %	70,4 %	68,8 %	60,5 %
TC- DD / DDE	16	FSS-10 GR100 FSS-10 I- GR8 FSS-10 L/P/ H- GR100	6- 6-	15	87,0 %	83,3 %	75,0 %	72,4 %	66,1 %
TC- DD / DDE	21	FSS-2 E- GR100 FSS-2 L/P/ H- GR100]] -	19,5	89,7 %	86,7 %	78,0 %	73,9 %	68,8 %
TC- DD / DDE	28	FSS-2 E- GR100 FSS-2 I- GR8]	24,5	89,1 %	86,0 %	80,3 %	78,2 %	73,9 %

		FSS-28- L/P/ H- GR10q		
TC- DD / DDE	38	FSS-3838,5 E- GR10q FSS-38- L/P/ H- GR10q	34,5	92,0 % 89,6 % 85,2 % 84,1 % 80,4 %
TC	5	FSD-5-5,4 I-G23 FSD-5- E-2G7	5	72,7 % 66,7 % 58,8 % 49,3 % 41,4 %
TC	7	FSD-7-7,1 I-G23 FSD-7- E-2G7	6,5	77,6 % 72,2 % 65,0 % 55,7 % 47,8 %
TC	9	FSD-9-8,7 I-G23 FSD-9- E-2G7	8	78,0 % 72,7 % 66,7 % 60,3 % 52,6 %
TC	11	FSD-1111,8 I-G23 FSD-11- E-2G7	11	83,0 % 78,6 % 73,3 % 66,7 % 59,6 %
T5	4	FD-4- 4,5 E- G5-16/150	3,6	64,9 % 58,1 % 50,0 % 45,0 % 37,2 %
T5	6	FD-6- 6 E- G5-16/225	5,4	71,3 % 65,1 % 58,1 % 51,8 % 43,8 %
T5	8	FD-8- 7,1 E- G5-16/300	7,5	69,9 % 63,6 % 58,6 % 48,9 % 42,7 %
T5	13	FD-13-13 E- G5-16/525	12,8	84,2 % 80,0 % 75,3 % 72,6 % 65,0 %
Т9-С	22	FSC-2222 E- G10q-29/200	19	89,4 % 86,4 % 79,2 % 74,6 % 69,7 %
Т9-С	32	FSC-3232 E- G10q-29/300	30	88,9 % 85,7 % 81,1 % 80,0 % 76,0 %

Т9-С	40	FSC-4040 E- G10q-29/400	32	89,5 %	86,5 %	82,1 %	82,6 %	79,2 %
T2	6	FDH-6- L/P- W4,3x8,5d-7/	5 220	72,7 %	66,7 %	58,8 %	Ó	
T2	8	FDH-8- L/P- W4,3x8,5d-7/	7,8 320	76,5 %	70,9 %	65,0 %	Ó	
T2	11	FDH-11- L/P- W4,3x8,5d-7/-	10,8 420	81,8 %	77,1 %	72,0 %	Ó	
T2	13	FDH-13- L/P- W4,3x8,5d-7/	13,3 520	84,7 %	80,6 %	76,0 %	ó	
T2	21	FDH-21- L/P- W4,3x8,5d-7/	21	88,9 %	85,7 %	79,2 %	Ó	
T2	23	FDH-23- L/P- W4,3x8,5d-7/	23	89,8 %	86,8 %	80,7 %	Ó	
Т5-Е	14	FDH-14- G5- L/ P-16/550	13,7	84,7 %	80,6 %	72,1 %	Ó	
Т5-Е	21	FDH-21- G5- L/ P-16/850	20,7	89,3 %	86,3 %	79,6 %	Ó	
Т5-Е	24	FDH-24- G5- L/ P-16/550	22,5	89,6 %	86,5 %	80,4 %	0	
Т5-Е	28	FDH-28- G5- L/ P-16/1150	27,8	89,8 %	86,9 %	81,8 %	Ó	
Т5-Е	35	FDH-35- G5- L/ P-16/1450	34,7	91,5 %	89,0 %	82,6 %	Ó	
Т5-Е	39	FDH-39- G5- L/ P-16/850	38	91,0 %	88,4 %	82,6 %	6	

T5-E	49	FDH-49- G5- L/ P-16/1450	49,3	91,6 % 89,2 % 84,6 %
Т5-Е	54	FDH-54- G5- L/ P-16/1150	53,8	92,0 % 89,7 % 85,4 %
Т5-Е	80	FDH-80- G5- L/ P-16/1150	80	93,0 % 90,9 % 87,0 %
Т5-Е	95	FDH-95- G5- L/ P-16/1150	95	92,7 % 90,5 % 84,1 %
T5-E	120	FDH-120- G5- L/ P-16/1450	120	92,5 % 90,2 % 84,5 %
T5-C	22	FSCH-22- L/ P-2GX13-16/	22,3 225	88,1 % 84,8 % 78,8 %
T5-C	40	FSCH-40- L/ P-2GX13-16/	39,9 300	91,4 % 88,9 % 83,3 %
T5-C	55	FSCH-55- L/ P-2GX13-16/	55 300	92,4 % 90,2 % 84,6 %
T5-C	60	FSCH-60- L/ P-2GX13-16/	60 375	93,0 % 90,9 % 85,7 %
TC- LE	40	FSDH-40- L/ P-2G11	40	91,4 % 88,9 % 83,3 %
TC- LE	55	FSDH-55- L/ P-2G11	55	92,4 % 90,2 % 84,6 %
TC- LE	80	FSDH-80- L/ P-2G11	80	93,0 % 90,9 % 87,0 %
TC- TE	32	FSMH-32- L/ P-2GX24q=3	32	91,4 % 88,9 % 82,1 %

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TC- TE	42	FSMH-42- L/ P-2GX24q=4	43	93,5 % 91,5 % 86,0 %
TC- TE	57	FSM6H-57- L/ P-2GX24q=5 FSM8H-57- L/ P-2GX24q=5		91,4 % 88,9 % 83,6 %
TC- TE	70	FSM6H-70- L/ P-2GX24q=6 FSM8H-70- L/ P-2GX24q=6		93,0 % 90,9 % 85,4 %
TC- TE	60	FSM6H-60- L/ P-2G8=1	63	92,3 % 90,0 % 84,0 %
TC- TE	62	FSM8H-62- L/ P-2G8=2	62	92,2 % 89,9 % 83,8 %
TC- TE	82	FSM8H-82- L/ P-2G8=2	82	92,4 % 90,1 % 83,7 %
TC- TE	85	FSM6H-85- L/ P-2G8=1	87	92,8 % 90,6 % 84,5 %
TC- TE	120	FSM6H-120- L/ P-2G8=1 FSM8H-120- L/ P-2G8=1		92,6 % 90,4 % 84,7 %
TC- DD	55	FSSH-55- L/P- GRY10q3	55	92,4 % 90,2 % 84,6 %

4. The following paragraph is added after the first paragraph of Annex IV:

Member States authorities shall use reliable, accurate and reproducible measurement procedures, which take into account the generally recognised state of the art measurement methods, including methods set out in documents the reference numbers of which have been published for that purpose in the *Official Journal of the European Union*.

- (1) OJ L 285, 31.10.2009, p. 10.
- (2) OJ L 76, 24.3.2009, p. 17.
- (**3**) OJ L 76, 24.3.2009, p. 3.
- (**4**) OJ L 100, 19.4.1994, p. 1.
- (5) OJ L 23, 28.1.2000, p. 57.
- (6) OJ L 374, 27.12.2006, p. 10.
- (7) OJ L 157, 9.6.2006, p. 24.
- **(8)** OJ L 169, 12.7.1993, p. 1.
- **(9)** OL L 187, 16.7.1988, p. 1.'

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Changes and effects yet to be applied to:

Regulation implicit repeal by EUR 2019/2020 Regulation