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EEE Products

HCT-202201-01

EU issued final evaluation report on RoHS exemption clauses

On January 13, 2022, the European Union issued the final evaluation results of the RoHS Exemption Clause 6(a), 6(a)-1, 6(b), 6(b)-I, 6(b)-I, 6(c), 7(a), 7(c)-I and 7(c)-II. The evaluation results show that some exemption clauses will no longer be extended, and the exemption scope of some clauses will become more refined. In the follow-up, the EU will issue a draft revision of RoHS based on the evaluation results. After the revision draft is approved, the EU will issue a formal EU RoHS revision directive to modify the above exemption clauses.

The final evaluation results are summarized below:

No.	Exemptions use	The deadline of exemption
6(a)	Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight and in galvanized steel containing up to 0,35 % lead by weight.	 21 July 2023 for category 8 in vitro diagnostic medical devices; 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
6(a)-I	Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight.	Expires on 21 July 2024 for all categories.
6(a)-II	Lead as an alloying element in batch hot dip galvanised steel components containing up to 0,2 % lead by weight.	Expires on 21 July 2026 for all categories.
6(b)	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight.	 21 July 2023 for category 8 in vitro diagnostic medical devices, 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
6(b)-I	Lead as an alloying element in aluminium containing up to 0,4% lead by weight provided it stems from lead-bearing aluminium scrap recycling.	Expires 12 months after the decision for all categories.
6(b)-II	Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight.	Expires 18 months after the decision for all categories
6(b)-III	Lead as an alloying element in aluminium casting alloys containing up to 0,3% lead by weight provided it stems from lead-bearing aluminium scrap recycling.	Expires on 21 July 2026 for all categories.
6(b)-IV	Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight in gas valves applied in category 1 EEE (large household appliances).	Expires on 31 December 2024.
6(c)	Copper alloy containing up to 4 % lead by weight.	Expires on 21 July 2026 for all categories.
7(a)	Lead in high melting temperature type solders (i.e., lead-based alloys containing 85 % by weight or more lead) (excludes those in	For all categories except applications covered by point 24 of this Annex,

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	the scope of exemption 24)	expires on 21 July 2024
	the scope of exemption 24). Lead in high melting temperature type solders (i.e., lead-based	expires on 21 July 2024.
	alloys containing 85 % by weight or more lead) when used for the	
	following applications (excludes those in the scope of exemption	
	24):	
	I) for internal interconnections for attaching die, or other	
	components along with a die in semiconductor assembly with	
	steady state or transient/impulse currents of 0.1 A or greater or	
	blocking voltages beyond 10 V, or die edge sizes larger than 0.3	
	mm x 0.3 mm,	
	II) for integral (meaning internal and external) connections of die	
	attach in electrical and electronic components, if the thermal	
	conductivity of the cured/sintered die-attach material	
	is >35W/(m*K) AND the electrical conductivity of the	
	cured/sintered die-attach material shall be >4.7MS/m AND	
	solidus melting temperature has to be above 260°C,	
	III) In first level solder joints (internal or integral connections -	
	meaning internal and external) for manufacturing components so	Applies to all categories except
	that subsequent mounting of electronic components onto	applications covered by point 24 of
	subassemblies (i.e., modules or sub-circuit boards or substrates	this Annex, expires on 21 July 2026.
	or point to point soldering) with a secondary solder does not	
	reflow the first level solder. This item excludes die attach	
	applications and hermetic sealings,	
	IV) In second level solder joints for the attachment of	
	components to printed circuit board or lead frames:	
	1. in solder balls for the attachment of ceramic ball-grid-array	
	(BGA),	
	2. in high temperature plastic overmouldings (> 220 °C),	
	V) as a hermetic sealing material between: 1. a ceramic package	
	or plug and a metal case, 2. component terminations and an	
	internal sub-part,	
	VI) for establishing electrical connections between lamp	
	components in incandescent reflector lamps for infrared heating	
	or high intensity discharge lamps or oven lamps,	
	VII) for audio transducers where the peak operating temperature	
	exceeds 200°C,	
	Electrical and electronic components containing lead in a glass or	
7(c)-l	ceramic other than dielectric ceramic in capacitors, e.g.	Expires on 21 July 2024 for all
	piezoelectronic devices, or in a glass or ceramic matrix	categories.
	compound.	
7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125	Does not apply to applications
	V AC or 250 V DC or higher.	covered by point 7(c)-I and 7(c)-IV of

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		this Annex. Expires on 21 July 2026
		for all categories.
	Electrical and electronic components containing lead in a glass or	
	glass matrix compound that fulfils the following functions:	
	1) protection and electrical insulation in glass beads of high	
	voltage diodes and glass layers for wafer on the basis of a	
	lead-zinc-borate or a lead-silica-borate glass body,*	
	2) for hermetic sealings between ceramic, metal and/or glass	
	parts,	
7(0))/	3) for bonding purposes in a process parameter window for <	Expires on 21 July 2026 for all
7(c)-V	500°C combined with a viscosity of 1013,3 dPas (so called	categories.
	"glass-transition temperature").	
	4) used as resistance materials such as ink, with a resistivity	
	range from 1 Ohms/square to 1 Mega Ohms/square, excluding	
	trimmer potentiometers**	
	5) used in chemically modified glass surfaces for Microchannel	
	Plates (MCPs), Channel Electron Multipliers (CEMs) and	
	Resistive Glass Products (RGPs).	
7(c)-VI	Electrical and electronic components containing lead in a	
	ceramic that fulfils the following functions (excluding items	
	covered under item 7(c)-II, 7(c)-III and 7(c)-IV of this annex):	Expires on 21 July 2026 for all
	1) piezoelectric lead zirconium titanate (PZT) ceramics,	categories.
	2) providing ceramics with a positive temperature coefficient	
	(PTC).	

HCT SOLUTION :

After more than a year of evaluation, the Oeko Institut released final evaluation report of pack 22. According to the evaluation report, most of exemption clauses will continue to extend their validity in the future, but the exemption scope of a few clauses will change. HCT reminds relevant enterprises to continue to pay attention to the latest developments of the above exemption clauses to ensure the legal compliance of products.

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