





































	Ecolabel criteria for	r Imaging Equipmer	nt ips
2 <sup>nd</sup> AHWG, Brussels 01-12-2011			20
EU The energy sub Timely the revi the developmen	Ecolabel and Energy -AHWG proposes to use Energ sion of Energy Star label for i nt of EU Ecolabel	<u>Star time plan</u> y Star v.2.0 maging equipment is in paralle	el with
Energy Star	Final Draft	E to	Expected time
-period	for comments-	-Period until it comes into force-	1
Dec. 2011	March/April 2012	D	ec. 2012
EU Ecolabel	Use Energy Star v2.0 as energy efficiency method	Nov. vote 2012	



	bel criteria for Imaging Equipment $ips$
2 <sup>nd</sup> AHWG, Brussels 01-12-2011	22
Differences between the	two alternative assessment and verification options
1. Current proposal:	3 <sup>rd</sup> party verification is NOT necessary all EU Energy Star labeled products are deemed to comply
2. Alternative option:	<ul> <li>3<sup>rd</sup> party verification is necessary</li> <li>a) Energy efficiency is very important Key Environmental Area  many stakeholders propose 3<sup>rd</sup> party verification</li> <li>b) Energy Star will require for US market from now on always a 3<sup>rd</sup> party verification</li> <li>c) 3<sup>rd</sup> party verified Energy Star labeled products are deemed to comply</li> </ul>











UROPEAN COMMI		abel crite	ria for Im	aging Equ	ipment	ip
2 <sup>nd</sup> AHWG, I	Brussels 01-12-2011				2	28
Criteri	on 5 - Restric	ction of TV	OC, benzo	ene, styren	e, ozone al	nd
		dust indo	or emissi	ons		
Prop	osed criterion	adot mat				
Ir	the use phase the	e product shall	not emit the h	elow listed pollu	itants in amour	nts
h	igher than the max	cimum emissio	n rates given b	pelow:		110
	.g					-
	Substance	Emission rate Print phase (mg/h)		Emission rate Ready phase (mg/h).		
		Colour Printing	Monochrome	Desktop products	Floor-mounted	
		+ print phase	printing Total in ready + print phase		equipment (Volume >250 litres)	
	туос	Total in ready + print phase 18	printing Total in ready + print phase 10	1	equipment (Volume >250 litres) 2	-
	TVOC Benzene	18 <pre>classical control for the second sec</pre>	printing Total in ready + print phase 10 <0.05	1	equipment (Volume >250 litres) 2	-
	TVOC Benzene Styrene	Total in ready + print phase 18 <0.05 1.8	printing Total in ready + print phase 10 <0.05 1.0	1	equipment (Volume >250 litres) 2	-
	TVOC Benzene Styrene Ozone*	Total in ready           + print phase           18           <0.05	printing Total in ready + print phase 10 <0.05 1.0 1.5	1	equipment (Volume >250 litres) 2	-
	TVOC Benzene Styrene Ozone* Dust*	Total in ready           + print phase           18           <0.05	printing Total in ready + print phase           10           <0.05	1	equipment (Volume >250 litres) 2	-
	TVOC Benzene Styrene Ozone* Dust* Phenol	Total in ready           + print phase           18           <0.05	printing Total in ready + print phase           10           <0.05	1	equipment (Volume >250 litres) 2	-
	TVOC Benzene Styrene Ozone* Dust* Phenol Non identifiable VOC	Total in ready + print phase 18 <0.05 1.8 3.0 4.0 1.8 1.8 1.8	printing Total in ready + print phase           10           <0.05	1	equipment (Volume >250 litres) 2	-

















EUROPEAN	<b>JRC</b> EU Ecolabel criter	ia for Imagi	ing Equipment
2 <sup>nd</sup> A	HWG, Brussels 01-12-2011		37
	Criterion 7 – Hazardou	is substanc	es and mixtures
Propos	sed criterion		
In a arti No foll 127 List	Iccordance with Article 6(6) of Regu cle of it shall not contain substance 1907/2006 nor substances or mixtur owing hazard classes or categories 2/2008 of the European Parliament t of hazard statements and risk phra	lation (EC) No 66 es referred to in <i>/</i> res meeting the 6 in accordance v and of the Coun- ases:	6/2010, the product or any Article 57 of Regulation (EC) criteria for classification in the vith Regulation (EC) No cil (1).
	Hazard statement ( <sup>[1]</sup> )	Risk Phrase ([2])	
	H300 Fatal if swallowed	R28	
	H301 Toxic if swallowed	R25	
	H304 May be fatal if swallowed and enters airways	R65	
	H310 Fatal in contact with skin	R27	
	H311 Toxic in contact with skin	R24	
	H330 Fatal if inhaled	R23/26	
	H331 Toxic if inhaled	R23	
	H340 May cause genetic defects	R46	( <sup>[1]</sup> ) As provided for in Regulation (EC) No
	H341 Suspected of causing genetic defects	R68	1272/2008. ( <sup>[2]</sup> )As provided for in Council Directive
	H350 May cause cancer	R45	67/548/EEC (OJ 196, 16.8.1967, p. 1).

EU Ecolabel criteria for Imaging Equipment				
Criterion 7 – Hazardous substances and mixtures (continue)				
Hazard statement (11)	Risk Phrase ([2])	List of hazard statements and	d risk phrases	
H350i May cause cancer by inhalation	R49	(Continue)		
H351 Suspected of causing cancer	R40			
H360F May damage fertility	R60	Hazard statement ( <sup>[1]</sup> )	Risk Phrase ( <sup>[2]</sup> )	
H360D May damage the unborn child	R61	H410 Very toxic to aquatic life with long-lasting	R50-53	
H360FD May damage fertility. May damage the unborn child	R60/61/60-61	effects	10000	
H360Fd May damage fertility. Suspected of damaging the	R60/63	H411 Toxic to aquatic life with long-lasting effects	R51-53	
unborn child	Detter	H412 Harmful to aquatic life with long-lasting	R52-53	
H360Df May damage the unborn child. Suspected of damaging fertility	R61/62			
H361f Suspected of damaging fertility	R62	H413 May cause long-lasting effects to aquatic life	R55	
H361d Suspected of damaging the unborn child	R63	EUH059 Hazardous to the ozone layer	R59	
H361fd May damage fertility. May damage the unborn child	R62-63	EUH029 Contact with water liberates toxic gas	R29	
H362 May cause harm to breast fed children	R64	EUH031 Contact with acids liberates toxic gas	R31	
H370 Causes damage to organs	R39/23/24/25/26	EUH032 Contact with acids liberates very toxic gas	R32	

R39/23/24/25/26 /27/28

R68/20/21/22

R48/25/24/23

R48/20/21/22

R50/50-53

H372 Causes damage to organs

H400 Very toxic to aquatic life

H371 May cause damage to organs

H373 May cause damage to organs

(<sup>[1]</sup>) As provided for in Regulation (EC) No 1272/2008.
 (<sup>[2]</sup>)As provided for in Council Directive 67/548/EEC (OJ 196, 16.8.1967, p. 1).

R39-41

EUH070 Toxic by eye contact



EUROPEA	<b>JRC</b> EU Ecolabel criteria f	or Imaging Equipment	ipts	
2 <sup>nd</sup>	2 <sup>nd</sup> AHWG, Brussels 01-12-2011 40 Criterion 7 – Hazardous substances and mixtures (continue)			
The ferring the ferring the second se	ollowing substances/uses of substances rement:	are specifically derogated from th	nis	
	Homogeneous parts of complex articles with weight below 10 g	All hazard statements and risk phrases		
	Inks and toners and cartridges	All hazard statements and risk phrases		
	Ni in stainless steel of all types other than of high-sulphur grades ( $S > 0.1\%$ )			
	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3,- tetramethylbutyl)phenol CAS 3147-75-9			
	Triphenylphosphine CAS 603-35-0			
			·	







	Ecolabel criteria for Imaging Equipment
2 <sup>nd</sup> AHWG, Brussels 01-12-2011 Criterion 7	- Hazardous substances and mixtures
Criterion is based of	on:
Implications of arti hazardous substa	cle 6.6 and 6.7 of Ecolabel Regulation 66/2010 regarding the use of nces and mixtures in ecolabelled products.
DG ENV criterion laptops.	for hazardous substances as applied in EU Ecolabel for computers and
Development of haz	zardous substances criterion and consultation
IPTS 1 <sup>st</sup> AHWG E Preliminary C Report	asis: article 6.6 & 6.7 of Ecolabel Regulation Criterion on hazardous substances & mixtures
2 <sup>nd</sup> AHWG	Stakeholders written feedback















































## AHWG, Brussels 01-12-2011

EU Ecolabel criteria for Imaging Equipment

## Criterion 15 - Substances in ink and toners

## **Proposed criterion**

- a) No substances may be added to toners and inks supplied or recommended by applicant for use in the product which contain mercury, cadmium, lead, nickel or chromium-VI-compounds as constituents. Exempted are high molecular weight complex nickel compounds as colorants. Production-related contamination by heavy metals, such as cobalt and nickel oxides shall be kept as low as technically possible and economically reasonable.
- b) Azo colorants that might release carcinogenic aromatic amines appearing on the list of aromatic amines according to Regulation (EC) No 1907/2006 annex XVII, shall not be used in toners and inks supplied or recommended by the applicant for use in the product.































