

# GreenElectronics News

Vol. 043/2008.11.30

## Latest Development

- ⊙ The first EuP implementing measure is likely to be adopted this December. This Commission Regulation will set power consumption limits for standby and off-mode losses for a couple of appliances in households and offices with a first tier taking effect within one year after adoption. Other implementing measures are likely to follow soon after, namely on external power supplies – with a very ambitious tier 2 proposed -, some lighting products and simple settop boxes. Next on the agenda are for example TV sets, for which minimum requirements are likely, i.e. a power consumption threshold, but also a mandatory energy efficiency labeling to differentiate products on the market. In total, the European Commission has under investigation currently 31 product categories and more to come. (*Source: Fraunhofer IZM*)
- ⊙ According to EETimes, IPC- the Association Connecting Electronics Industries has raised concerns over a recent report that Tetrabromobisphenol A (TBBPA) is on a draft list of substances for priority examination under the European Union's (EU) Restriction of Hazardous Substances (RoHS) regulation. As the flame retardant TBBPA is used in more than two-thirds of the world's electrical and electronic appliances, according to IPC, a ban of TBBPA would have a tremendous impact on the electronics industry in Europe. (*Source: KERP*)
- ⊙ On 28 October 2008 ECHA has included 15 substances in the Candidate List of Substances of Very High Concern (SVHC) for authorisation which was published on ECHA website. It will be regularly updated when more substances are identified as SVHC every two years. From 1 December 2011, EU and EEA producers or importers of articles have to notify ECHA when their article contains a substance on the Candidate List. This obligation applies if the substance is present above 0.1% (w/w) and its quantities in the produced/imported articles are above 1 tonne in total per year per company. (*Source: KERP*)
- ⊙ In the USA an upgraded e-Steward Certification scheme has been designed to

# GreenElectronics News

---

Vol. 043/2008.11.30

help firms identify responsible WEEE recyclers. According to an article in BusinessGreen, the voluntary e-Steward certification, which is carried by 32 US and Canadian electronics recyclers, requires firms to ensure

- no eWaste is dumped in developing countries, local landfills or incinerators
- that prison labour is not used to process the waste and
- that private data contained in discarded computers is not released.

By choosing an e-Steward recycler, consumers and large businesses are assured that their old computers, TVs and other WEEE will be safely managed. (Source: KERP)

- © The 10<sup>th</sup> edition of 'Guide to Greener Electronics' by Green Peace was published on 24 November 2008. Nokia scores 6.9 out of 10 and achieves maximum points for its comprehensive voluntary take-back programme. Sony Ericsson scores 5.9 points for its new environmental warranty, guaranteeing take-back and recycling for individual products regardless of location. Toshiba climbs to 3<sup>rd</sup> by gaining extra points on the energy criteria; it is now reporting its use of renewable energy. Samsung grabs the 4<sup>th</sup> place who is good on toxic chemicals and energy but very poor on recycling. Fujitsu Siemens comes into 5<sup>th</sup> who is good on energy but poorly on electronic waste. Acer is the only Taiwanese company gets into the list and ranks the 11<sup>th</sup> with comments on the needs to improve on reducing toxic chemicals and recycling. Nintendo comes to the last place who scores zero on most criteria except chemicals management and energy. The guide ranks the 18 top manufacturers of personal computers, mobile phones, TV's and games consoles according to their policies on toxic chemicals, recycling and climate change. (Source: Carbon Zone)

# GreenElectronics News

Vol. 043/2008.11.30

## Technical Report:

### 1. Details of REACH 15 SVHC

Substance name	CAS No.	EC No.	Basis as a SVHC
Cobalt dichloride	7646-79-9	231-589-4	Carcinogen, cat. 2
Sodium dichromate	7789-12-0 10588-01-9	234-190-3	CMT, cat. 2
Diarsenic pentaoxide	1303-28-2	215-116-9	Carcinogen, cat. 1
Diarsenic trioxide	1327-53-3	215-481-4	Carcinogen, cat. 1
Lead hydrogen arsenate	7784-40-9	232-064-2	Carcinogen, cat. 1; Toxic for reproduction cat. 1
Dibutyl phthalate	84-74-2	201-557-4	Toxic for reproduction, cat. 2
Bis (2-ethyl(hexyl)phthalate, (DEHP)	117-81-7	204-211-0	Toxic for reproduction, cat. 2
Benzyl butyl phthalate	85-68-7	201-622-7	Toxic for reproduction, cat. 2
Anthracene	120-12-7	204-371-1	Persistent, bioaccumulative & toxic
Bis(tributyltin)oxide	56-35-9	200-268-0	Persistent, bioaccumulative & toxic
5-tert-butyl-2,4,6-trinitro-m-xylene, musk xylene	81-15-2	201-329-4	Very persistent & very bioaccumulative
Hexabromocyclododecane(HBCDD) and all major diastereoisomers identified( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	25637-99-4 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	247-148-4 221-695-9	Persistent, bioaccumulative & toxic
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	Persistent, bioaccumulative & toxic, vPvB
4,4'-Diaminodiphenylmethane	101-77-9	202-974-4	Carcinogen, cat. 2
Triethyl arsenate	15606-95-8	427-700-2	Carcinogen, cat. 1

HSE Department, Electronics Testing Center,  
ETC, Taiwan

Tel. +886 3 328 0026 ext. 289

-Thomas Chang

thomas@etc.org.tw

<http://www.greenelectronics.org.tw/>

China Academy of Telecommunication Research  
of MII, China Telecommunication Technology  
Labs, CTTL, China

Tel. +86 10 68050746

- Maggie Liu

liuyan@chinattl.com

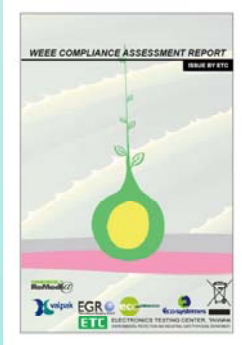
[http://www.chinattl.com/accept/accept\\_RoHS.asp](http://www.chinattl.com/accept/accept_RoHS.asp)

# GreenElectronics News

Vol. 043/2008.11.30

**ETC** Electronics Testing Center, Taiwan

## OPTI-UPS WEEE 3R Reports are recognised in



**ACKNOWLEDGEMENT**

Member State	Company	Logo
Spain	ESCARRELE	ESCARRELE
Germany	EGR	EGR
France	Eco-system	Eco-system
United Kingdom	VALPAK	VALPAK
Italy	ReMedi@	ReMedi@



**3. 3R Assessment**  
UPS Enhanced Series - ES 800C

Item	Main Material	Weight(kg)	Characteristics	Percent(%)
1	Metal Total	2718	Recyclable	24.8
2	Plastic	3	Recyclable	0.1
3	Biodegradable Plastic	881	Recyclable	17.7
4	Metal Coating	420	Recyclable	0.8
5	Glass (non CRT)	---	---	---
6	Other Misc. materials	---	---	---
7	Other Misc. materials	---	---	---
8	Accessory Materials	1247	Recyclable	45.4
Total weight / case				100
Recycling Rate (Phase 1 + Recycle) / 7286				95.0
Energy Recovery / kWh				0.0
Recovery Rate (Phase 1 + Recycle + Energy Recovery) / 7281				95.0

**WEEE Compliance**

Item	Weight(kg)	%
Recycle	7286	95.0
Metal to EPR	63	0.8
Landfill	3	0.1

**4. WEEE ANNEX II**

Item	Quantity	Weight(kg)	Phase 1 Recyclable
4.1	1	82	Plastic containing Bi Based materials - 100 grams
4.2	1	2000	Plastic containing Bi Based materials - 100 grams
4.3	1	80	Plastic containing Bi Based materials - 100 grams
4.4	1	10	Plastic containing Bi Based materials - 100 grams
4.5	1	10	Plastic containing Bi Based materials - 100 grams
4.6	1	10	Plastic containing Bi Based materials - 100 grams
4.7	1	10	Plastic containing Bi Based materials - 100 grams
4.8	1	10	Plastic containing Bi Based materials - 100 grams
4.9	1	10	Plastic containing Bi Based materials - 100 grams
4.10	1	10	Plastic containing Bi Based materials - 100 grams
4.11	1	10	Plastic containing Bi Based materials - 100 grams
4.12	1	10	Plastic containing Bi Based materials - 100 grams
4.13	1	10	Plastic containing Bi Based materials - 100 grams
4.14	1	10	Plastic containing Bi Based materials - 100 grams
4.15	1	10	Plastic containing Bi Based materials - 100 grams
4.16	1	10	Plastic containing Bi Based materials - 100 grams
4.17	1	10	Plastic containing Bi Based materials - 100 grams
4.18	1	10	Plastic containing Bi Based materials - 100 grams
4.19	1	10	Plastic containing Bi Based materials - 100 grams
4.20	1	10	Plastic containing Bi Based materials - 100 grams
4.21	1	10	Plastic containing Bi Based materials - 100 grams
4.22	1	10	Plastic containing Bi Based materials - 100 grams
4.23	1	10	Plastic containing Bi Based materials - 100 grams
4.24	1	10	Plastic containing Bi Based materials - 100 grams
4.25	1	10	Plastic containing Bi Based materials - 100 grams
4.26	1	10	Plastic containing Bi Based materials - 100 grams
4.27	1	10	Plastic containing Bi Based materials - 100 grams
4.28	1	10	Plastic containing Bi Based materials - 100 grams
4.29	1	10	Plastic containing Bi Based materials - 100 grams
4.30	1	10	Plastic containing Bi Based materials - 100 grams
4.31	1	10	Plastic containing Bi Based materials - 100 grams
4.32	1	10	Plastic containing Bi Based materials - 100 grams
4.33	1	10	Plastic containing Bi Based materials - 100 grams
4.34	1	10	Plastic containing Bi Based materials - 100 grams
4.35	1	10	Plastic containing Bi Based materials - 100 grams
4.36	1	10	Plastic containing Bi Based materials - 100 grams
4.37	1	10	Plastic containing Bi Based materials - 100 grams
4.38	1	10	Plastic containing Bi Based materials - 100 grams
4.39	1	10	Plastic containing Bi Based materials - 100 grams
4.40	1	10	Plastic containing Bi Based materials - 100 grams
4.41	1	10	Plastic containing Bi Based materials - 100 grams
4.42	1	10	Plastic containing Bi Based materials - 100 grams
4.43	1	10	Plastic containing Bi Based materials - 100 grams
4.44	1	10	Plastic containing Bi Based materials - 100 grams
4.45	1	10	Plastic containing Bi Based materials - 100 grams
4.46	1	10	Plastic containing Bi Based materials - 100 grams
4.47	1	10	Plastic containing Bi Based materials - 100 grams
4.48	1	10	Plastic containing Bi Based materials - 100 grams
4.49	1	10	Plastic containing Bi Based materials - 100 grams
4.50	1	10	Plastic containing Bi Based materials - 100 grams
4.51	1	10	Plastic containing Bi Based materials - 100 grams
4.52	1	10	Plastic containing Bi Based materials - 100 grams
4.53	1	10	Plastic containing Bi Based materials - 100 grams
4.54	1	10	Plastic containing Bi Based materials - 100 grams
4.55	1	10	Plastic containing Bi Based materials - 100 grams
4.56	1	10	Plastic containing Bi Based materials - 100 grams
4.57	1	10	Plastic containing Bi Based materials - 100 grams
4.58	1	10	Plastic containing Bi Based materials - 100 grams
4.59	1	10	Plastic containing Bi Based materials - 100 grams
4.60	1	10	Plastic containing Bi Based materials - 100 grams
4.61	1	10	Plastic containing Bi Based materials - 100 grams
4.62	1	10	Plastic containing Bi Based materials - 100 grams
4.63	1	10	Plastic containing Bi Based materials - 100 grams
4.64	1	10	Plastic containing Bi Based materials - 100 grams
4.65	1	10	Plastic containing Bi Based materials - 100 grams
4.66	1	10	Plastic containing Bi Based materials - 100 grams
4.67	1	10	Plastic containing Bi Based materials - 100 grams
4.68	1	10	Plastic containing Bi Based materials - 100 grams
4.69	1	10	Plastic containing Bi Based materials - 100 grams
4.70	1	10	Plastic containing Bi Based materials - 100 grams
4.71	1	10	Plastic containing Bi Based materials - 100 grams
4.72	1	10	Plastic containing Bi Based materials - 100 grams
4.73	1	10	Plastic containing Bi Based materials - 100 grams
4.74	1	10	Plastic containing Bi Based materials - 100 grams
4.75	1	10	Plastic containing Bi Based materials - 100 grams
4.76	1	10	Plastic containing Bi Based materials - 100 grams
4.77	1	10	Plastic containing Bi Based materials - 100 grams
4.78	1	10	Plastic containing Bi Based materials - 100 grams
4.79	1	10	Plastic containing Bi Based materials - 100 grams
4.80	1	10	Plastic containing Bi Based materials - 100 grams
4.81	1	10	Plastic containing Bi Based materials - 100 grams
4.82	1	10	Plastic containing Bi Based materials - 100 grams
4.83	1	10	Plastic containing Bi Based materials - 100 grams
4.84	1	10	Plastic containing Bi Based materials - 100 grams
4.85	1	10	Plastic containing Bi Based materials - 100 grams
4.86	1	10	Plastic containing Bi Based materials - 100 grams
4.87	1	10	Plastic containing Bi Based materials - 100 grams
4.88	1	10	Plastic containing Bi Based materials - 100 grams
4.89	1	10	Plastic containing Bi Based materials - 100 grams
4.90	1	10	Plastic containing Bi Based materials - 100 grams
4.91	1	10	Plastic containing Bi Based materials - 100 grams
4.92	1	10	Plastic containing Bi Based materials - 100 grams
4.93	1	10	Plastic containing Bi Based materials - 100 grams
4.94	1	10	Plastic containing Bi Based materials - 100 grams
4.95	1	10	Plastic containing Bi Based materials - 100 grams
4.96	1	10	Plastic containing Bi Based materials - 100 grams
4.97	1	10	Plastic containing Bi Based materials - 100 grams
4.98	1	10	Plastic containing Bi Based materials - 100 grams
4.99	1	10	Plastic containing Bi Based materials - 100 grams
4.100	1	10	Plastic containing Bi Based materials - 100 grams

...and they are made by Electronics Testing Center (ETC)

### Main Features of ETC 3R Reports

- Multi-national recognitions by PCS and recyclers
- Full pictorial dismantling process
- Complying with standards
- Best added value in the market

ETC also offers WEEE registration services in the EU 27  
Interested?

Please contact Thomas Chang, ETC WEEE Team, Email: [thomas@etc.org.tw](mailto:thomas@etc.org.tw)  
Tel: +886-3-3280026 ext. 289 Fax: +886-3-3276176

財團 台灣電子檢驗中心  
法人

HSE Department, Electronics Testing Center, ETC, Taiwan

China Academy of Telecommunication Research of MII, China Telecommunication Technology Labs, CTTL, China

Tel. +886 3 328 0026 ext. 289

Tel. +86 10 68050746

-Thomas Chang  
[thomas@etc.org.tw](mailto:thomas@etc.org.tw)

- Maggie Liu  
[liuyan@chinattl.com](mailto:liuyan@chinattl.com)

<http://www.greenelectronics.org.tw/>

[http://www.chinattl.com/accept/accept\\_RoHS.asp](http://www.chinattl.com/accept/accept_RoHS.asp)