Environmental declaration

for TRIDONIC.ATCO
Electronic Transformers TE……

		Yes	No	No information	Not relevant for this product	(See) comment
Product						
1.	**Plastic components in the product**					
1.1	Is PVC used in cables and electrical conductors? (1)		**X**			
1.2	Does any other part of the product contain PVC? (1)	**X**				**partial protective plastic films of condensers**
1.3	Have plastic flame retardants containing PBB or PBDE been used in components in the product (2)		**X**			
1.4	Do the plastic components contain any of the following additives?					
1.4.1	Lead (incl. compounds) (3, 4, 5)		**X**			
1.4.2	Phthalates (3, 4)		**X**			
1.4.3	Chlorated paraffins (3, 4)		**X**			
1.4.4	Organic-tin compounds (3)		**X**			
1.5	Are environmentally hazardous metallic pigments used in the plastics? (3, 4, 5)		**X**			**X1**
1.6	Has the titanium oxide used as a pigment in plastic components been made by any method other than the one specified in the EU Commission Directive 92/112/EEG? (6)		**X**			
2.	**Electronics and soldering**					
2.1	Are the following environmentally hazardous substances used in the electronics and soldering?					
2.1.1	Arsenic (incl. compounds) (3, 4)		**X**			
2.1.2	Lead incl. compounds) (3, 4, 5)	**X**				
2.1.3	Cadmium (incl. compounds) (3, 4, 5)		**X**			
2.1.4	PCB (Polychlorinated biphenyls) (4)		**X**			
2.1.5	PCT (Polychlorinated terphenyls) (4)		**X**			
2.1.6	Silver compounds (4)	**X**				
2.1.7	PBB or PBDE		**X**			
3.	**Metallic components in the product**					
3.1	Are the following environmentally hazardous substances found in the product's metal components?					
3.1.1	Arsenic (incl. compounds) (3, 4)		**X**			
3.1.2	Lead incl. compounds) (3, 4, 5)		**X**			
3.1.3	Cadmium (incl. compounds) (3, 4, 5)		**X**			
3.1.4	Chromium (incl. compounds)		**X**			
3.1.5	Mercury (incl. compounds)		**X**			
4.	**Other components**					
4.1	Does the product contain glass components with lead additives? (2)		**X**			
4.2	Does the product contain any wood components made from tropical rain forests? (7)		**X**			
4.2	Does the product contain acid-curing silicone?		**X**			
5.	**Paint / Varnish**					
5.1	Are there any powder coated metal surfaces in the product?		**X**			
5.2	Are there any solvent-based painted metal surfaces in the product?		**X**			

		Yes	No	No information	Not relevant for this product	See comment
5.3	Are there any chemical products in paints/varnishes which are classed as environmentally hazardous? (8)		**X**			**X2**
5.4	Are environmentally hazardous metallic pigments used in paint/varnish? (3, 4, 5)		**X**			**X1**
5.5	Do metallic paints contain additives with the following substances?					
5.5.1	Halogenated organic binders		**X**			
5.5.2	Phthalates		**X**			
6.	**Solvents**					
6.1	Are aromatic hydrocarbons included in the solvents used in the production of the product or packaging? (5)		**X**			**X3**
6.2	Are the substance groups (chloroflourocarbonates / flourocarbonates) used in the production of the product or packaging?		**X**			
6.3	Are chlorated solvents used in the production of the product or packaging?		**X**			**X5**
6.4	Are cyanides used in surface treatment of metal components?		**X**			
6.5	Are there any metal surfaces which are degreased with chlorated organic solvents?		**X**			
6.6	Is only water-based de-greasing of metal surfaces used, or no degreasing at all?	**X**				
6.7	Are nonylphenolethoxylates (environmentally hazardous tensides) used in degreasing metal surfaces?		**X**			
6.8	Do any of the metal paints contain more than 5 percent by weight of organic solvents?		**X**			
6.9	Is the VOC content (Volatile Organic Compounds) in the paints/varnishes used more than 25 percent by weight? (8)		**X**			
6.10	Are aromatic hydrocarbons used in the paints/varnishes? (5)		**X**			**X3**
6.11	Are water or environmentally acceptable solvents used in in the paints/varnishes? (9)	**X**				**X4**
7.	**Other surface treatment of metals**					
7.1	Report the methods for surface treating metal components (zinc plating, chrome plating, etc.):	Zinc & blue chromate plated screws				
8.	**Packaging (refers to individual packages)**					
8.1	The package contains the following pure (not compound) material:	carton				
8.2	Is shock-absorbing plastic material used in the package?		**X**			
8.3	Are ozone-destroying compounds used in making the shock-absorbing plastic material in the package?		**X**			
8.4	Are compound materials used in the packages?		**X**			
8.4.1	The packages consist of the following compound materials:					
8.5	Are all plastic materials used in the packages marked in accordance with the DIN 6120 standard specification to facilitate recycling?		**X**			
9.	**Recycling**					
9.1	Is the company a member of the Electrical Recycling Organisation?		**X**			
9.2	Is the company a member of the REPA register?		**X**			
9.3	Has the product been prepared for disassembly by making all materials possible to separate?	**X**				
9.4	Are all larger plastic components (more than 100 g) marked in accordance with the ISO 11 469 standard specification?	**X**				

Comments:

X1
Pigments Environmentally hazardous pigments are the following:

- Arsenic (including compounds) (3, 4)
- Lead (including compounds) (3, 4, 5)
- Cyanides (including compounds (5)
- Cadmium (including compounds) (3, 4, 5)
- Copper (including compounds) (4)
- Chromium (including compounds) (4)
- Mercury (including compounds) (3, 4, 5)
- Nickel (including compounds) (5)

X2
"Environmentally hazardous chemical products" are the following:

- Pure substances marked by one of the following risk classifications:
  R52, R53, R54, R55, R56, R57, R58, R59
- Preparations where the percentage of pure substances marked by one of the following risk classifications exceeds 2% by weight:
  R52, R53, R54, R55, R56, R57, R58, R59

X3
Aromatic hydrocarbons:

- Benzene (5)
- Toluene (Methylbenzene) (5)
- Xylene (Dimethylbenzene) (5)

X4
Environmentally acceptable solvents are as follows (as ref. 9):

- Water
- Ethanol (not denatured with phthalals)
- i-Propanol
- Propylene glycol
- n-Paraffins
- Glycerol (= alcohols with more than 4 carbon atoms)
- Acetone
- Isopropyl laurate
- Isopropyl palmitate
- Isopropyl myristat
- Methyl pyrrolidon
- Gamma-Butyrolactone
- Ethylacetate

X5

- Chlorated solvents:
- Hexachlorbutadiene
- Methylene chloride
- Tetrachlormethane
- 1, 2, 4-Trichlorbenzene
- 1, 1, 1-Trichloretane
- Trichloretylene
- Trichlormethane

Spennymoor, date 05.02.04

Dave Rutherford
Manufacturing & Development
Director

Tony Banks
Quality manager

References

1 Greenpeace list over municipalities that are positive to the liquidation of their PVC-usage.

2 ”Environmental aspeqts when setting agreement upon furnishing". Miljörvaltningen, Göteborgs kommun, PM 1994-06-15, Maria Berglund.

Miljöförvaltningen
Göteborgs kommun
Box 360
401 25 Göteborg
Tel: 031-61 26 10

3 Chemicals authority. Kemikalieinspektionen, Limitationlist.

4 Chemicals authority, OBS-list may 1996.

5 US Environmental Protection Agency: Industrial Toxics Project (1990). A list over high prioritized environmentally hazardous chemicals for which the discharge shall decrease with a minimum of 50 percent until 1996.

6 The councils directive 92/112/EEG of the 15 of december 1992, regarding "Measures to be taken to decrease and finally eliminate pollution through waste from the titandioxindustry.

7 Good Wood Guide, Friends of the Earth U.K. 1987.

Jordens Vänner
Fjällgatan 23 A
116 28 Stockholm
Tel: 08-702 20 17

8 ”Marque NF-Environment aux peinture, vernis et produits connexes”, 3:e audited version 1994-06-10. AFNOR, Frankrike.

Association Francais de Normalisation
Tour Europe
Cedex 7
92049 Paris La Defense
FRANKRIKE
tel: +33 (1) 42 91 55 55
fax: +33 (1) 42 91 56 56

9 Judgement and comparison of solvent in the households chemicaltechnical - Basis för Naturskydds-föreningens work within the projectarea Buy Environmental Friendly. Anders Östman and Ulf Karlström, march 1993 (the list is audited 1993).

Naturskyddsföreningen
Box 7005
402 31 Göteborg
tel: 031-711 64 50
fax: 031-711 64 30

10 The Montrealprotocol 1987 (inkl. the Londonamendment 1990 and the Köpenhamnamendment 1992) regarding certain states undertaking of the liquidation of ozone-destroying compounds, and the Regulation of CFC and Halon etx, SFS 1988.716.