

Environmental declaration

for TRIDONIC.ATCO Emergency products EM.....

	Yes	No	No information	Not relevant for this product	(See) comment
Product: EM					
1.	Plastic components in the product				
1.1		X			
1.2	X				partial protective plastic films of condensers
1.3		X			
1.4	Do the plastic components contain any of the following additives?				
1.4.1		X			
1.4.2		X			
1.4.3		X			
1.4.4		X			
1.5		X			X1
1.6		X			
2.	Electronics and soldering				
2.1	Are the following environmentally hazardous substances used in the electronics and soldering?				
2.1.1		X			
2.1.2	X				
2.1.3		X			
2.1.4		X			
2.1.5		X			
2.1.6	X				
2.1.7		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		X			
3.1.2		X			
3.1.3		X			
3.1.4		X			
3.1.5		X			
4.	Other components				
4.1		X			
4.2		X			
4.2		X			
5.	Paint / Varnish				
5.1		X			
5.2	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 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.):	Galvanic zinc plating				
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 11469 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

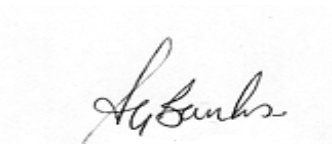
X5

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

Spennymoor, date 05.02.04



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Director



Tony Banks
Quality manager

References

- 1 Greenpeace list over municipalities that are positive to the liquidation of their PVC-usage.
- 2 "Environmental aspects when setting agreement upon furnishing". Miljöförvaltningen, Göteborgs kommun, PM 1994-06-15, Maria Berglund.

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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.

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

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- 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).

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