

## Environmental declaration

### for TRIDONIC.ATCO magnetic Power Gear OM-PAK

		Yes	No	No information	Not relevant for this product	See comment
<b>Produkt</b>						
<b>1.</b>	<b>Plastic components in the product</b>					
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			
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	
<b>2.</b>	<b>Electronics and soldering</b>					
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			
<b>3.</b>	<b>Metallic components in the product</b>					
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				Igniter
3.1.3	Cadmium ( incl. compounds ) ( 3, 4, 5 )		X			
3.1.4	Chromium (incl. compounds)		X			
3.1.5	Mercury (incl. compounds)		X			
<b>4.</b>	<b>Other components</b>					
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			
<b>5.</b>	<b>Paint / Varnish</b>					
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				
5.3	Are there any chemical products in paints/varnishes which are classed as environmentally hazardous? (8)		X			X2

		Yes	No	No information	Not relevant for this product	See comment
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			
<b>Manufacture</b>						
<b>6.</b>	<b>Solvents</b>					
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 (chlorofluorocarbonates / fluorocarbonates) 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 nonylphenoethoxylates (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				UP-impregnation resin
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**				toluene (hardener)
6.11	Are water or environmentally acceptable solvents used in in the paints/varnishes? (9)		X			X4
*	<i>The resin contains the reactive thinner styrene, which for the most part polymerize with the unsaturated polyester</i>					
**	<i>The amount of toluene is smaller 0,15 percent by weight</i>					
<b>7.</b>	<b>Other surface treatment of metals</b>					
7.1	Report the methods for surface treating metal components (zinc plating, chrome plating, etc.):	vacuum impregnation of ballast				
<b>Packages and recycling</b>						
<b>8.</b>	<b>Packaging (refers to individual packages)</b>					
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	no plastic material used

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<b>9.</b>	<b>Recycling</b>					
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-Trichlorethane
- Trichlorethylene
- Trichlormethane

Fürstenfeld, am 16.05.2002



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## 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.  
  
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.  
  
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- 8 "Marque NF-Environment 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 Köpenhamnamentment 1992) regarding certain states undertaking of the liquidation of ozone-destroying compounds, and the Regulation of CFC and Halon etx, SFS 1988.716.