

## Environmental facts

Company: WAGO Kontakttechnik GmbH  
 Product: 773-XXX

|           |  | Yes | No | No information | Not relevant for this product | See comments |
|-----------|--|-----|----|----------------|-------------------------------|--------------|
| <b>1.</b> | <b>Plastic parts in products</b>   |     |    |                |                               |              |
| 1.1       | Is there PVC in the cables and electrical wires? (1)   |     |    |                | X                             |              |
| 1.2       | Does any other part of the product contain PVC? (1)  |     | X  |                |                               |              |
| 1.3       | Do the plastic parts in the product contain flame retardants with organically bound chlorine or bromine? (2)   |     | X  |                |                               |              |
| 1.4       | Do the plastic parts in the product contain any of the following additives?  |     |    |                |                               |              |
|           | Lead (including compounds) (3,4,5)   |     | X  |                |                               |              |
|           | Phthalates (3,4)   |     | X  |                |                               |              |
|           | Chlorinated paraffins (3,4)  |     | X  |                |                               |              |
|           | Organic tin compounds (3)  |     | X  |                |                               |              |
| 1.5       | Are environmentally hazardous metal pigments used in the plastic? (3,4,5)  |     | X  |                |                               | X1           |
| 1.6       | Is the titanium dioxide used as a pigment in the plastic parts manufactured according to another method than that stated in the EU council's directive 92/112/EEG? (6) |     | X  |                |                               |              |
| <b>2.</b> | <b>Electronics and solder</b>  |     |    |                |                               |              |
| 2.1       | Do the electronics and solder contain any of the following environmentally hazardous substances?   |     |    |                |                               |              |
|           | Arsenic (including compounds) (3,4)  |     |    |                | X                             |              |
|           | Lead (including compounds) (3,4,5)   |     |    |                |                               |              |

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|           |  | Yes | No | No information | Not relevant for this product | See comments |
|-----------|--|-----|----|----------------|-------------------------------|--------------|
|           |  |     |    |                | X                             |              |
|           | Cadmium (including compounds) (3,4,5)  |     |    |                | X                             |              |
|           | PCB (Polychlorinated biphenyls) (4)  |     |    |                | X                             |              |
|           | PCT (Polychlorinated terphenyls) (4)   |     |    |                | X                             |              |
|           | Silver compounds (4)   |     |    |                | X                             |              |
| <b>3.</b> | <b>Metal parts in the product</b>  |     |    |                |                               |              |
| 3.1       | Do the metal parts in the product contain any of the following environmentally hazardous substances?         |     |    |                |                               |              |
|           | Arsenic (including compounds) (3,4)  |     | X  |                |                               |              |
|           | Lead (including compounds) (3,4,5)   | X   |    |                |                               |              |
|           | Cadmium (including compounds) (3,4,5)  |     | X  |                |                               |              |
| <b>4.</b> | <b>Other parts</b>   |     |    |                |                               |              |
| 4.1       | Does the product contain parts made of glass with lead additives? (2)  |     | X  |                |                               |              |
| 4.2       | Does the product contain parts made of wood from tropical rain forests? (7)                                  |     | X  |                |                               |              |
| <b>5.</b> | <b>Paint/Varnish</b>   |     |    |                |                               |              |
| 5.1       | Are there chemical products in the paint/varnish used which are classified as environmentally hazardous? (8) |     |    |                | X                             | X2           |
| 5.2       | Are there any environmentally hazardous metal pigments in the paint/varnish? (3,4,5)                         |     |    |                | X                             | X1           |
| <b>6.</b> | <b>Solvents in paint/varnish</b>   |     |    |                |                               |              |
| 6.1       | Are solvent-based paints/varnishes used on any of the parts of the product?                                  |     |    |                | X                             |              |
| 6.2       | Is the level of VOCs (volatile organic compounds) in the paint/varnish used higher than 25% by weight? (8)   |     |    |                | X                             |              |
| 6.3       | Does the paint/varnish contain aromatic hydrocarbons? (5)  |     |    |                | X                             | X3           |

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|           |  | Yes             | No   | No information              | Not relevant for this product | See comments |
|-----------|--|-----------------|------|-----------------------------|-------------------------------|--------------|
| 6.4       | Are water or environmentally acceptable solvents used in the paint/varnish? (9)  |                 |      |                             | X                             | X4           |
| <b>7.</b> | <b>Other surface treatment of metal</b>  |                 |      |                             |                               |              |
| 7.1       | State methods for surface treatment of metal parts (galvanising, chromium plating etc.):<br>.....<br>.....<br>.....<br>.....             |                 |      | elektroplated (galvanising) |                               |              |
| <b>8.</b> | <b>Packaging</b>   |                 |      |                             |                               |              |
| 8.1       | Does the packaging consist of any of the following acceptable materials (materials are listed in order where I is the best alternative)? |                 |      |                             |                               |              |
|           | I Unbleached paper/carton from recycled fibre.   | X               |      |                             |                               |              |
|           | II Polyethylene or Polypropylene plastic from recycled material.   | X <sup>1)</sup> |      |                             |                               | 1)           |
|           | III One of the materials from groups I or II is manufactured from new raw materials  | X <sup>1)</sup> |      |                             |                               | 1)           |
| 8.1.1     | Packaging consists of the following pure (not composite) materials not included above:<br>.....<br>.....                                 |                 | N.A. |                             |                               |              |
| 8.1.2     | Packaging consists of the following composite materials:<br>.....<br>.....<br>.....  |                 | N.A. |                             |                               |              |
| 8.2       | Is all plastic material in the packaging marked according to standard specifications DIN 54 840 and/or ISO 11469 to simplify recycling?  |                 |      |                             | X                             |              |
| 8.3       | Is there PVC or other halogen-containing plastic in the packaging? (2)   |                 | X    |                             |                               |              |
| 8.4       | Is the company a member of the REPA register?  |                 | X    |                             |                               |              |

- 1) Polyethylene is used only for packaging units 5000 or 10000 pcs (100 packaging units with 50 or 100 pcs are stretched in Polyethylene foil).  
Packaging units 50 or 100 pcs are only from paper/carton.

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## B. Manufacturing

|           |  | Yes,<br>used in<br>production | No, not<br>used in<br>production | No<br>information | Not<br>relevant | See<br>comments |
|-----------|--|-------------------------------|----------------------------------|-------------------|-----------------|-----------------|
| <b>9.</b> | <b>Solvents</b>  |                               |                                  |                   |                 |                 |
| 9.1       | Are aromatic hydrocarbons used in solvents in the production of the product or packaging? (5)                  |                               | X                                |                   |                 | X3              |
| 9.2       | Are any of the following chlorofluorocarbons/fluorocarbons used in the production of the product or packaging? |                               | X                                |                   |                 |                 |
|           | CFC (10)   |                               | X                                |                   |                 |                 |
|           | HCFC (10)  |                               | X                                |                   |                 |                 |
| 9.3       | Are chlorinated solvents used in the production of the product or packaging?                                   |                               | X                                |                   |                 | X5              |

### Comments:

#### X1

##### Pigments

The following are classified as environmentally hazardous pigments:

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

The following are classified as environmentally hazardous chemical products:

Pure substances marked with any of the following risk categories:

R52, R53, R54, R55, R56, R57, R58, R59.

Preparations containing pure substances marked with any of the following risk categories at levels greater than 2% by weight:

R52, R53, R54, R55, R56, R57, R58, R59.

#### X3

##### Aromatic hydrocarbons:

Benzene (5)

Toluene (methylbenzene) (5)

Xylene (dimethylbenzene) (5)

#### X4

The following solvents are classified as environmentally acceptable (according to ref 9):

Water  
Ethanol (not denatured with phthalates)  
i-Propanol  
Propylene glycol  
n-Paraffins  
Glycerol (= alcohols with more than four C atoms)  
Acetone  
Isopropyl laurate  
Isopropyl palmitate  
Isopropyl myristate  
Methylpyrrolidone  
Gamma-Butyrolactone  
Ethyl acetate

#### X5

##### Chlorinated solvents:

Hexachlorobutadiene  
Methylene chloride  
Tetrachloromethane  
1,2,4-Trichlorobenzene  
1,1,1-Trichloroethane

## References

1. Greenpeace's list of councils which are positive towards stopping their use of PVC.

Greenpeace  
Box 15164  
104 65 Stockholm  
Tel: 08-702 70 70

2. "Environmental aspects for procurement of fittings". Environmental Administration, Gothenburg Municipal Council, Memo 15 June 1994.

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

**Continues...**

3. Chemicals Inspectorate, Limitations 10/90, the so-called list of 13.
4. Chemicals Inspectorate, Environmentally hazardous list and scientific documentation 10/89, the so-called list of 40.
5. US Environmental Protection Agency: Industrial Toxics project (1990). List of high priority environmentally hazardous chemicals for which emission should be reduced by at least 50 per cent by the end of 1996.
6. Council directive 92/112/EEG of 15 December 1992 on *Actions to reduce and ultimately eliminate pollution from waste from the titanium dioxide industry*.
7. Good Wood Guide, Friends of the Earth, UK 1987.

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

8. "Marque NF-Environment aux peinture, vernis et produits connexes", Third revised version, 10 June 1994, AFNOR, France.

Association Français de Normalisation  
Tour Europe  
Cedex 7  
92049 Paris La Defense  
France  
Tel: +33 (1) 42 91 55 55  
Fax: +33 (1) 42 91 56 56

9. Assessment and comparisons of solvents in household chemical-technical products - Basis for the Swedish National Association for Environmental Protection's work within the project area *Buy Environmentally Friendly*. Anders Östman and Ulf Karlström, March 1993 (list revised 1993).

Naturskyddsföreningen  
Box 7005  
402 31 Göteborg  
Tel: 031-711 64 50  
Fax: 031-711 64 30

10. Montreal protocol 1987 (including London addition 1990 and Copenhagen addition 1992) concerning certain countries' actions for stopping the use of ozone-degrading agents and the Statute on CFC and Halones, etc. SFS 1988.716.

## Addition to environmental declaration

To dispose of used electrical and electronic equipment in an environmentally correct way, please contact the following companies:

Techno World AB  
Box 80  
370 10

GRE  
Lövstavägen  
165 70 Hässelby

Tabulator Teknik AB  
Hägerstens allé 86  
129 02 Hägersten

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