# Enviromental facts

Company: Frico
Product: IR3000-4500-6000

Produced by E.L. Electrical Material Suppliers´ Association. The material is based on NUTEK´s project "Advice for Purchasers"

| | | Yes | No | No in-formation | Not relevant for this product | See comment |
|---|---|---|---|---|---|---|
| **1.** | **Plastic parts in products** | | | | | |
| 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 chorine 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 | | | |
| | Phtalates (3, 4) | | X | | | |
| | Chlorinated paraffins (3, 4) | | X | | | |
| | Organic tin compounds (3) | | X | | | |
| 1.5 | Are enivironmentallly 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 EU council´s directive 92/112/EEG? (6) | | X | | | |
| **2.** | **Electronics and solder** | | | | | |
| 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) | | X | | | |
| | Cadmium (including compouns) (3, 4, 5) | | X | | | |
| | PCB (Polychlorinated compounds) (4) | | X | | | |
| | PCT (Polychlorinated terphenyls) (4) | | X | | | |
| | Silver compounds (4) | | X | | | |
| | | Yes | No | No In-formation | Not relevant for this product | See comments |

| | | | | | | |
|---|---|---|---|---|---|---|
| **3.** | **Metal parts in the product** | | | | | |
| 3.1 | Do the metal parts in the product contain any of following environmentally hazardous substances? | | | | | |
| | Arsenic (including compounds) (3, 4) | | X | | | |
| | Lead (including compounds) (3, 4, 5) | | X | | | |
| | Cadmium (including compounds) (3, 4, 5) | | X | | | |
| **4.** | **Other parts** | | | | | |
| 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 | | | |
| **5.** | **Paint/varnish** | | | | | |
| 5.1 | Are there chemical products in the paint/varnish used wich are classified as environmentally hazardous? (8) | | X | | | X2 |
| 5.2 | Are ther any environmentally hazardous metal pigments in the paint/varnish? (3, 4 ,5) | | X | | | X1 |
| **6.** | **Solvents in paint/varnish** | | | | | |
| 6.1 | Are solvent-based paints/varnishes used on any of the parts of the product? | | X | | | |
| 6.2 | Is the level of VOC´s (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 |
| 6.4 | Are water or environmentally acceptable solvents used in the paint/varnish? (9) | | X | | | X4 |
| **7.** | **Other surface treatment of metal** | | | | | |
| 7.1 | State methods for surface treatment of metal parts (galvanasing, chromium plating etc.) | | | | | |

| | | Yes | No | No in-formation | Not relevant for this product | See comment |
|---|---|---|---|---|---|---|
| **8.** | **Packaging** | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 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 | | | |
| III | One of the materials from groups I or II is manufactured from new raw materials. | X | | | | |
| 8.1.1 | Packaging consists of the following pure (not composite) materials not included above: | | | | | |
| 8.1.2 | Packaging consists of the following composite materials: | | | | | |
| 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 | | | | |

## B. Manufacturing

| | | Yes, used in producti on | No, not used in prroducti on | No in-formation | Not relevant for this product | See comments |
|---|---|---|---|---|---|---|
| **9.** | **Solvents** | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 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 chlorflourocarbons/ flourocarbons 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
Pigment
The following are classified as environmentally hazardous pigments:
Arsenic (including compounds) (3, 4)
Lead (including compounds) (3, 4, 5)
Cyanides (including compounds) (3, 4, 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 containg pure substances marked with any of the following risk categories at levels greater than 2% by wieght:
R52, R53, R54, R55, R56, R57, R58, R59

X3
Aromatic hydrocarbons:
Benzene (5)
Tolouene (methylbenzene) (5)
Xylene (dimethylbenzene) (5)

X4
The following solvents are classified as envionrmentally acceptable (according to ref 9):

Water
Ethanol (not denaturated with phthalales)
i-Propanol
Propylene glycol
n-Paraffins
Glycerol (=alcohols with more than four C atoms)
Acetone
Isopropyllaurate
Isopropylpalmitate
Isopropylmyristate
Methylpyrrolidone
Gamma-Butyrolactone
Ethyl acetate

X5
Clorinated solvents:
Hexachlorobutadiende
Methylene chloride
Tetrachloromethane
1, 2, 4-Trichlorobenzene
1, 1, 1- Trichloroethane
Trichlorethylene
Trichloremethane

**References**


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

   Greenpeace
   Box 15164
   104 65 STOCKHOLM
   Tel: +46 8 702 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: +46 31 61 26 10

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 environmentallys hazardous chemcials for wich emmison should be reduced by at least 50 per cent by the end of 1996.

6. Council directive 92/112/EEG of 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.

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

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Cedex 7
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France
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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).

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10. Montreal protocol 1987 (including London addition 1990 and Copenhagen addition 1992) concerning countrie´s actions for stopping the use of ozone-degrading agents andt the Statue on CFC and Halones, etc. SFS 1988.716.