

Environmental facts / Miljöfakta

Company / Företag: Rutab AB

Product / Produkt: MCB - Miniature Circuit Breaker / Automatsäkringar

E-no – Art.no / E-nr – Art.nr: 2146300..2146315, 2146316..2146331, 2146332..2146347, 2146420..2146452, 2146460..2146492, 2146500..2146532, 2146535

Produced by E.L. Electrical Material Suppliers Association / Utarbetad av E.L. Elmateriel Leverantörernas förening.

The material is based on Nuteks project "Advice for Purchasers". / Materialet är en bearbetning av Nuteks projekt "Råd för inköpare".

| | | | Yes | No | No information | Not relevant for this product | See comments |
|-----------|--|--|-----|----|----------------|-------------------------------|--------------|
| 1. | Plastic parts in products | Plastdetaljer i produkt | | | | | |
| 1.1 | The presences of PVC in cables and electrical wires? (1) | Förekommer PVC i kablar och elektriska ledningar? (1) | | | | | |
| 1.2 | Does any part of the product contain PVC? (1) | Innehåller någon annan del av produkten PVC? (1) | | X | | | |
| 1.3 | Do the plastic parts in the product contain flame-retardants with organically bound chlorine or bromine? (2) | Innehåller plastdetaljer i produkten flamskyddsmedel med organiskt bundet klor eller brom? (2) | | X | | | |
| 1.4 | Do the plastic parts in the product contain any of the following additives? | Innehåller plastdetaljer i produkten någon av följande tillsatser? | | | | | |
| | Lead (including compounds) (3, 4, 5) | Bly (inklusive föreningar) (3, 4, 5) | | X | | | |
| | Phthalates (3, 4) | Ftalater (3, 4) | | X | | | |
| | Chlorinated paraffin's (3, 4) | Klorerade paraffiner (3, 4) | | X | | | |
| | Organic tin compounds (3) | Tennorganiska föreningar (3) | | X | | | |
| | Nonylphenol ethoxylates | | | X | | | |
| 1.5 | Are environmentally hazardous metal pigments used in the plastic? (3, 4, 5) | Används miljöfarliga metallpigment i plasten? (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) | Är titandioxid som ingår som pigment i plastdetaljer tillverkat enligt annan metod än vad som anges i EU-rådets direktiv 92/112/EEG? (6) | | X | | | |
| 2. | Electronics and solder | Elektronik och lödningar | | | | | |
| 2.1 | Do the electronics and solder contain any of the following environmentally hazardous substances?: | Ingår följande miljöfarliga ämnen i elektronik och lödningar?: | | | | | |
| | Arsenic (including compounds) (3, 4) | Arsenik (inkl. föreningar) (3, 4) | | X | | | |
| | Lead (including compounds) (3, 4, 5) | Bly (inkl. föreningar) (3, 4, 5) | | X | | | |
| | Cadmium(including compounds)(3,4,5) | Kadmium (inkl. föreningar) (3, 4, 5) | | X | | | |
| | PCB (Polychlorinated biphenyls) (4) | PCB (Polyklorerade bifenyler) (4) | | X | | | |
| | PCT (Polychlorinated terphenyls) (4) | PCT (Polyklorerade terfenyler) (4) | | X | | | |
| | Silver compounds (4) | Silverföreningar (4) | | X | | | |

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| | | | Yes | No | No information | Not relevant for this product | See comments |
|-----------|---|--|-----|----|----------------|-------------------------------|--------------|
| 3. | Metal parts in the product | Metalldetaljer i produkten | | | | | |
| 3.1 | Do the metal parts in the product contain any of the following environmentally hazardous substances?: | Ingår följande miljöfarliga ämnen i produktens metalldetaljer?: | | | | | |
| | Arsenic (including compounds) (3, 4) | Arsenik (inkl. föreningar) (3, 4) | | X | | | |
| | Lead (including compounds) (3, 4, 5) | Bly (inkl. föreningar) (3, 4, 5) | | X | | | |
| | Cadmium (including compounds) (3, 4, 5) | Kadmium (inkl. föreningar) (3, 4, 5) | | X | | | |
| 4. | Other parts | Övriga detaljer | | | | | |
| 4.1 | Does the product contain parts made of glass with lead additives? (2) | Innehåller produkten delar av glas med tillsatser av bly? (2) | | X | | | |
| 4.2 | Does the product contain parts made of wood from tropical rain forests? (7) | Innehåller produkten detaljer av trä från tropiska regnskogar? (7) | | X | | | |
| 5. | Paint/Varnish | Målning/Lackering | | | | | |
| 5.1 | Are there chemical products in the paint/varnish used that are classified as environmentally hazardous? (8) | Förekommer kemiska produkter i färger/lacker som klassas som miljöfarliga? (8) | | X | | | X2 |
| 5.2 | Are there any environmentally hazardous metal pigments in the paint/varnish? (3, 4, 5) | Ingår miljöfarliga metallpigment i färg/lack? (3, 4, 5) | | X | | | X1 |
| 6. | Solvents in paint/varnish | Lösningsmedel i färg/lack | | | | | |
| 6.1 | Are solvent-based paints/varnishes used on any of the parts of the product? | Används lösningsmedelbaserad målning/lackering för någon av produktens detaljer? | | X | | | |
| 6.2 | Is the level of VOCs (volatile organic compounds) in the paint/varnish used higher than 25% by weight? (8) | Är halten VOC (lättflyktiga organiska föreningar) i ingående färger/lacker högre än 25 viktprocent? (8) | | X | | | |
| 6.3 | Does the paint/varnish contain aromatic hydrocarbons? (5) | Ingår aromatiska kolväten i färgen/lacken? (5) | | X | | | X3 |
| 6.4 | Are water or environmentally acceptable solvents used in the paint/varnish? (9) | Används vatten eller miljömässigt acceptabla lösningsmedel i färgen/lacken? (9) | | X | | | X4 |
| 7. | Other surface treatment of metal | Övriga ytbehandling av metall | | | | | |
| 7.1 | State methods for surface treatment of metal parts (galvanising, chromium plating etc): | Redovisning av metoder för ytbehandling av metalldetaljer (förzinkning, förkromning, etc): Zink, koppar, silver, galvanisering, tenn | | | | | |

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| | | | Yes | No | No information | Not relevant for this product | See comments |
|-----------|--|---|-----|----|----------------|-------------------------------|--------------|
| 8. | Packaging | Förpackningar | | | | | |
| 8.1 | Does the packaging consist of any of the following acceptable materials (materials are listed in order where I is the best alternative)? | Består förpackningen av något av följande acceptabla material (materialen är rangordnade där I är det bästa alternativet) ? | | | | | |
| | I Unbleached paper/carton from recycled fibre. | I Oblekt papper/kartong i returfiber. | X | | | | |
| | II Polyethylene or Polypropylene plastic from recycled material. | II Polyeten- eller Polypropelenplast i returmaterial. | | X | | | |
| | III One of the materials from group I or II is manufactured from new raw materials. | III Ett av materialen från grupp I till II är framställt från jungfrulig råvara. | | X | | | |
| 8.1.1 | Packaging consists of the following pure (not composite) materials not included above: | Förpackningen består av följande rena (ej sammansatta) material än de ovan uppräknade: | | | | | |
| 8.1.2 | Packaging consists of the following composite materials: | Förpackningen består av följande sammansatta material: | | | | | |
| 8.2 | Is all plastic material in the packaging marked according to standard specifications DIN 54 840 and/or ISO 11 4669 for simplify recycling? | Är samtliga plastmaterial som förekommer i förpackningen märkta enligt standardspecifikationerna DIN 54 840 och/eller ISO 11 4669 för att underlätta återvinning? | | X | | | |
| 8.3 | Is there PVC or other halogen-containing plastic in the packaging? (2) | Ingår PVC eller andra halogenhaltiga plastmaterial i förpackningen (2) ? | | X | | | |
| 8.4 | Is the company a member of the REPA register? | Är företaget anslutet till REPA-registret ? | X | | | | |

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B. Manufacturing

| | | | Yes, used in production | No, not used in production | No information | Not relevant | See comments |
|-----------|---|--|-------------------------------|----------------------------------|-------------------|-----------------|-----------------|
| 9. | Solvents | Lösningsmedel | | | | | |
| 9.1 | Are aromatic hydrocarbons used in solvents in the production of the product or packaging? (5) | Ingår aromatiska kolväten i lösningsmedel som används i produktionen av produkt eller förpackning? (5) | | | | X | X3 |
| 9.2 | Are any of the following chlorofluorocarbons/ fluorocarbons used in the production of the product or packaging? | Används ämnesgrupper (klorfluorkarboner/fluorkarboner) i produktion av produkt eller förpackning? | | | | | |
| | CFC (10) | CFC (10) | | | | X | |
| | HCFC (10) | HCFC (10) | | | | X | |
| 9.3 | Are chlorinated solvents used in the production of the product or packaging? | Används klorerade lösningsmedel i produktion av produkt eller förpackning? | | | | X | X5 |

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Comments:

XI

Pigment

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-Paraffin's

Glycerol (= alcohols with more than four C atoms)

Acetone

Isopropylaurate

Isopropylpalmitate

Isopropylmyristate

Methylpyrrolidone

Gamma-Butyrolactone

Ethyl acetate

X5

Chlorinated solvents:

Hexachlorobutadiene

Methylene chloride

Tetrachloromethane

1, 2, 4-Trichlorobenzene

1, 1, 1-Trichloroethane

Trichlorethylene

Trichloromethane

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References

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

Greenpeace
Box 151 64
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

3. Chemicals Inspectorate, Limitation list.

4. Chemicals Inspectorate, so-called list may 1996.

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 U.K. 1987.

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

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

Association Française de Normalisation
Tour Europé
Cedex 7
92049 Paris La Defense
FRANKRIKE
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 *By 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 Bräkne-Hoby

GRE
Lövstavägen
165 70 Hässelby

Tabulator Teknik AB
Hägerstens allé 86
129 02 Hägersten