

# Common Ecology Profile



The environmental profile common to all IC packages is as shown below.

## Ecology Profile

### Statement of non-inclusion of substances prohibited from inclusion in products

The product is free from chemicals that Seiko Epson prohibits from inclusion in products.

### Information regarding substances targeted by RoHS Directive

The product is compliant with RoHS Directive (2002/95/EC):

### Chemicals contained in product: quantitative information

Quantitative information about chemicals contained in package product is disclosed separately in each data sheet.

### Non-use of Ozone-depleting substance (ODS)

The ozone-depleting substances are not used in the manufacturing process.

The "Fluorocarbon abolition" activity started in 1988, and achieved in 1992 in all Seiko Epson group.

Moreover, abolition was achieved for three kinds of the chloric organic solvent (trichloroethylene, chloridization methylene, and tetrachloroethylene) in 1999.

### Note

The latest prohibited Chemical Substance is in "SEG Green Purchsing Standard for Production Material".  
[http://www.epson.co.jp/e/community/environmental\\_gpurchasing.htm](http://www.epson.co.jp/e/community/environmental_gpurchasing.htm)

- Cadmium : <100ppm
- Lead, mercury, hexavalent chromium, PBB, PBDE : <1000ppm
- \*Content in a homogeneous material

Please refer to the each data sheet for the ingredient information for every package.

### ODS substances

1. Montreal Protocol Annex A, B, E & C-II

a. A - I CFC-11, 12, 113, 114, 115

b. A - II Halon-1211, 1301, 2402

c. B - I CFC-13, 111, 112, 211, 212, 213, 214, 215, 216, 217

d. B - II Carbon tetrachloride

e. B - III 1,1,1-Trichloroethane

f. C - II Alternative Halon (HBFCs)

g. E - I Methyl bromide (bromo-methane)

2. Alternative Fluorocarbon (Montreal Protocol Annex C- I )

HCFC-21, 22, 31, 121, 122, 123, 124, 131, 132, 133, 141, 141b, 142, 142b, 151, 221, 222, 223, 224, 225, 225ca, 225cb, 226, 231, 232, 233, 234, 235, 241, 242, 243, 244, 251, 252, 253, 261, 262, 271

## Other environmental consideration

### Container and packaging

The items are free from chemicals that Seiko Epson prohibits from inclusion in products.

Sum content of lead, cadmium, mercury and hexavalent chromium in the packaging is no more than 100ppm.

Packaging materials are free from PVCs.

### Production processes

No substances are used that Seiko Epson prohibits from usage in the manufacturing process.

### Non-use of other chemical substances

Following substances are not used in the manufacturing process.

- Asbest
- 2-(2H-1,2,3-benzotriazol-2-yl)-4,6-di-tert-butylphenol
- Tetrachloro phthalic anhydride, Hexachlorobenzene (HCB) (118-74-1)

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### Regarding chemical substance information

The content data is the value calculated based on intentional addition to the product and information from each supplier, and no guarantee value. Therefore, the measurement value might be slightly different from these data.