

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 (2011/65/EU):

Chemicals contained in product: quantitative information

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

Semiconductor Operations chemical substances banned in products

Our IC packages do not contain chemical substances which listed in Note column as well as Seiko Epson Group prohibited chemical substances.

Note

The latest prohibited Chemical Substance is in "SEG Green Purchsing Standard for Production Material".
https://global.epson.com/SR/supply_chain_csr/green_purchasing/

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

Please refer to the each data sheet for the ingredient information for every package following URL.
https://global.epson.com/products_and_drivers/semicon/information/package_lineup.html

- Tetrachloro phthalic anhydride
- Beryllium oxide (BeO)
- Red phosphorus
- Hydrofluorocarbon(HFC)
- Perfluorocarbons(PFC)
- Sulfur Hexafluoride(SF6)
- Radioactive substances(radioisotope and its compounds)

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, Beryllium oxide (BeO) and Dimethyl fumarate(DMF).

Production processes

No substances are used that Seiko Epson prohibits from usage and Ozone-depleting substance (ODS) in the manufacturing process.

Regarding chemical substance information

Our halogen free IC packags are compliant with following specification.

Chlorine (Cl) < 900 mg/kg, Bromine (Br) < 900 mg/kg, Total Chlorine (Cl) + Bromine (Br) < 1500 mg/kg

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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.