

## Phthalate Restriction Policy

Within the electronics industry, Phthalates are often used as “plasticizers” to make plastics more flexible or resilient e.g. softeners in flexible PVC plastic. They may also occur as constituents in some glues. Phthalates can migrate out of plastic over time and certain phthalates have been linked to adverse effects on human health and are classified as “toxic to reproduction” in Europe. The U.S. Environmental Protection Agency has regulated phthalates as water and air pollutants for a number of years.

This policy sets out our commitment to management of phthalates in line with all legal requirements and industry good practice. This policy is communicated via our website and embedded as a compliance condition in relevant supplier contractual agreements.

Use of certain phthalates is regulated under legislation (such as the European REACH Directive and Proposition 65 in California). Use of each of the following ten phthalates is therefore restricted to 1000 ppm at the homogeneous level.

Abbreviated Name (Synonyms)	Phthalate name	CAS number
DEHP (DOP, BEHP)	Di-2-ethylhexyl phthalate or Bis-2-ethylhexyl phthalate	117-81-7
DBP	Dibutyl phthalate	84-74-2
BBP	Benzyl butyl phthalate	85-68-7
DnOP	Di-n-octyl phthalate	117-84-0
DINP	Di-iso-nonyl phthalate (mixture of chemical compounds)	28553-12-0 68515-48-0
DIDP	Di-iso-decyl phthalate (mixture of chemical compounds)	26761-40-0 68515-49-1
DIBP	Diisobutyl phthalate	84-69-5
DnHP	Di-n-hexyl phthalate	84-75-3
DMEP	Bis(2-methoxyethyl) phthalate	117-82-8
DnPP	Di-n-pentyl phthalate	131-18-0

This policy became mandatory on 01 August 2012 for new products under development (and not yet past Gate 1 approval) as of that date. All new product launched since 2014 meet the requirements of this policy.



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