



Taiwan Semiconductor Material Category Policy

Definitions

✓ Lead(Pb)-Free

Taiwan Semiconductor products follow lead (Pb)-free policy as per J-STD-609 standards.

Lead (0.1 %)	< 1000 ppm
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✓ RoHS-Compliant

Taiwan Semiconductor hereby certifies compliance to RoHS directive 2011/65/EU

Lead (0.1 %)	< 1000 ppm
Mercury (0.1 %)	< 1000 ppm
Cadmium (0.01 %)	< 100 ppm
Hexavalent chromium (0.1 %)	< 1000 ppm
Polybrominated biphenyls (PBB) (0.1 %)	< 1000 ppm
Polybrominated diphenyl ethers (PBDE) (0.1 %)	< 1000 ppm

Taiwan Semiconductor hereby certifies compliance to RoHS directive 2015/863/EU

Bis (2- ethylhexyl) phthalate (DEHP) (0.1 %)	< 1000 ppm
Butyl benzyl phthalate (BBP) (0.1 %)	< 1000 ppm
Dibutyl phthalate (DBP) (0.1 %)	< 1000 ppm
Diisobutyl phthalate (DIBP) (0.1 %)	< 1000 ppm

Accord with the exempt clause:

7(a). Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)
 7(C)-I. Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.




✓ Halogen-Free

Taiwan Semiconductor follows Halogen-Free requirements as per IEC 61249-2-21 definition.

Bromine (0.09 %)	< 900 ppm
Chlorine (0.09 %)	< 900 ppm
Sum of Bromine and Chlorine (0.15 %)	≤ 1500 ppm



Datasheets Requirements

Category	Requirement	Description	LOGO Datasheet	LOGO Label
Lead (Pb)-Free	J-STD-609	Termination is lead (Pb)-Free		None
RoHS-Compliant	EU Directive 2011/65/EU, 2015/863/EU	Compliant to RoHS Directive 2011/65/EU, 2015/863/EU		RoHS Compliant
Halogen-Free	IEC 61249-2-21	Halogen-Free according to IEC 61249-2-21 definition.		None