

Declaration of Hazardous Substances

The RoHS EU directive bans the substances listed in Table 1. None of these substances are present in RoHS/Lead Free compliant Z-COMM products. A RoHS compliant product is determined by the addition of the suffix, "-LF" after the standard part number, ex: "V585ME06-LF". Please contact an applications engineer at applications@zcomm.com if your part number does not yet exhibit the "-LF" suffix.

	Chemical Name	CAS No.	Application Example
1	PBB, PBDE; specified bromic fire retardants	1163-19-5 etc.	Flame retardant
2	Mercury and mercury compounds	7439-97-6 etc.	Battery, Measuring instrument, Metal alloy, Catalyst, Illuminating lamp
3	Cadmium and cadmium compounds	7440-43-9 etc.	Pigment, Battery, Metal alloy, Plating, Photograph, Polyvinyl chloride stabilizer, Liquid crystal, Compound semiconductor,
4	Lead and lead compounds	7439-92-1 etc.	Metal alloy, Electronic part, Pigment, Rubber vulcanization accelerator, Paint, Solder
5	Hexavalent chromium compounds	1333-82-0 etc.	Corrosion prevention (chromate treatment), Oxidizing agent, Dye mordant, Pigment, Plating, Ink, Coloring agent

Table 1. RoHS banned substances.

In addition to the RoHS directive other regulatory entities have determined that certain substances are hazardous to the environment. Z-COMM recognizes these regulations. Table 2 lists other hazardous substances that are NOT present in any Z-COMM standard or RoHS compliant product.

	Chemical Name	CAS No.	Application Example
1	PCB; polychlorinated biphenyls	1336-36-3	Old style transformer, Insulating oil, Thermal catalyst, No-carbon paper
2	Asbestos; Chrysotile, Crocidolite, Amosite, Anthophyllite, Tremolite, Actinolite	1332-21-4 etc.	Friction material, Gasket, Heat insulator material, Thermal insulator, Brake lining, Building materials, Refractory material
3	Chlorinated paraffine (C10-13, Cl \geq 50wt%)	61788-76-9 etc.	Flame retardant
4	Ozone Depleting Chemical; 1,1,1-trichloroethane	71-55-6	Cleaner, Solvent
5	Ozone Depleting Chemical; CFCs and halons	75-69-4 etc.	Solvent, Cleaner, Propellant
6	Ozone Depleting Chemical; Carbon tetrachloride	56-23-5	Solvent
7	Dichloromethane; Methylene chloride	75-09-2	Solvent, Cleaner
8	Tetrachloroethylene; Perchloroethylene	127-18-4	Solvent, Cleaner
9	Trichloroethylene; Trichlene	79-01-6	Solvent, Cleaner
10	Polychlorinated naphthalene (Cl _x , x >= 3); Trichloronaphthalene, Tetrachloronaphthalene, etc	70776-03-3 etc.	Plasticizer, Machine oil
11	Bis(tri-n-butyltin)oxide	56-35-9	Pigment, Paint additive, Insecticide, Antiseptics, Plasticizer, Polyvinyl chloride stabilizer, Various additives
12	Organo tin compounds (Tributyltins, Triphenyltins)	1461-23-0 etc.	
13	PVC; polyvinylchloride; polyvinylchloride blends; vinylchloride polymer	9002-86-2	Synthetic resin material
14	Ozone Depleting Chemical; HCFCs	75-43-4 etc.	Solvent, Cleaner
15	Azo compound; Azo dye, pigment (coloring)	92-67-1 etc.	Liquid crystal material, High-tech material, Dyestuff
	Nickel	7440-02-0	The purpose of the part which can touch with a skin. Plating process, Metal alloy material, Alumite coloring, Pigment, Paint, Battery, Catalyst
16	Nickel compounds	1313-99-1 etc.	

Table 2. Other banned Substances.