

Icom Inc. Green Procurement Standard 3rd version
Appendix : Icom Inc.'s List of Substances to be Managed

The Icom Inc.'s List of Substances to be Managed is referenced from the JIG-101, "Annex A: JIG Declarable Substance List". The materials shown in this list are classified as the restricted substances and the substances to be reported. Please refer to the JIG-101 for the details of the Substances to be managed.

Restricted substances

Substance/ Category	Reportable Application(s)	Threshold Level (Reporting level)	Examples of Use	Key Legal and Regulatory or industry standard/ agreement citation
Asbestos	All	Intentionally added	Brake lining pad, insulator, filler, abrasive, pigment, paint, talc, adiabatic material	EU Directive 76/769/EC and EU Directive 91/339/EEC; US TSCA; Swiss Ordinance on Reduction of Risk from Chemical Products
Azocolourants and azodyes which form certain aromatic amines	Textiles and leather	0.003% by weight (30 ppm) of the finished textile/leather product	Pigment, dyes, colorants	EU Directive 76/769/EEC and Directive 2002/61/EC; EU Directive 2003/03/EEC
Cadmium/ cadmium compounds	All, except batteries	0.01% by weight (100 ppm) of homogeneous materials	Pigment, anti-corrosion surface treatment, electric and electronic materials, optical material, stabilizer, plating, pigment for resin, fluorescent, electrode, solder, electric contact, contact point, zinc plating, stabilizer for PVC	EU Directive 76/769/EEC; EU Directive 2002/95/EC; China MII Methods; Korea RoHS; Japan J-MOSS; US/CA SB-20/50
Cadmium/ cadmium compounds	Batteries	0.0005% by weight (5 ppm) of battery	batteries	Swiss Ordinance on Reduction of Risk from Chemical Products; EU Directive 2006/66/EC
Chromium VI compounds	All	0.1% by weight (1,000 ppm) of homogeneous materials	pigment, paint, ink, catalyst, plating, anti-corrosion surface treatment, dye, paint dryer, surface treatment, chromate treatment, paints adhesion enhancement, anti-corrosion	EU Directive 2002/95/EC; China MII Methods; Korea RoHS; Japan J-MOSS; US/CA SB-20/50

Substance/ Category	Reportable Application(s)	Threshold Level (Reporting level)	Examples of Use	Key Legal and Regulatory or industry standard/ agreement citation
Fluorinated greenhouse gases (PFC, SF6, HFC)	All	Intentionally Added	Refrigerants, blowing agents, extinguishing agents, cleaning agents, insulating media, caustic gas	EU Reg. No. 842/2006; Austrian Ordinance by the Federal Minister for Agriculture, Forestry, Environment and Water Management on Bans and Restrictions for Partly Fluorinated and Fully Fluorinated Hydrocarbons and Sulphur Hexafluoride
Formaldehyde	Composite wood (plywood, particle board, MDF) products or Components	Intentionally added	stereo cabinets, kiosk enclosures	US/CA CARB Rule
Formaldehyde	Textiles	0.0075%by weight (75 ppm) of textile product	Textiles	Austria - BGB I 1990/194: Formaldehydverordnung, §2, 12/2/1990; Lithuanian Hygiene Norm HN 96:2000 (Hygiene standards and regulations)
Lead/ lead compounds	All, except as noted below	0.1 % by weight (1,000 ppm) of homogeneous materials	rubber hardener, pigment, paint, lubricant, plastic stabilizer, materials for battery, free-machining alloy, free-cutting steels, optical materials, X-ray shielding in CRT glass, electrical solder material, mechanical solder materials, curing agent, vulcanizing agent, ferroelectrics, resin stabilizer, plating, metal alloy, resin additive	EU Directive 2002/95/EC; China MII Methods; Korea RoHS; Japan J-MOSS; US/CA SB-20/50
Lead/ lead compounds	Consumer products designed or intended primarily for children 12 years of age or younger	0.03% by weight (300 ppm) of children's product	toy electronic product	U.S. Consumer Product Safety Improvement Act

Substance/ Category	Reportable Application(s)	Threshold Level (Reporting level)	Examples of Use	Key Legal and Regulatory or industry standard/ agreement citation
Lead/ lead compounds	Paint and similar surface coatings of toys and other articles intended for use by children	0.009% by weight of surface coating	toys	U.S. Consumer Product Safety Improvement Act
Lead/ lead compounds	Cables/cords with thermoset or thermoplastic coatings	0.03% by weight (300 ppm) of surface coating	Cables/cords	US/CA Proposition 65 Case law
Mercury/ mercury compounds	All, except batteries	Intentionally added or 0.1% (1,000 ppm) at homogeneous material	fluorescent bulb, contact point material, pigment, anti-corrosion, switches, high-efficiency phosphor, antibacterial treatment	Vermont act relating to comprehensive management of exposure to mercury; Rhode Island General Laws 23-24.9 and amendment of 2007; Louisiana Mercury Risk Reduction Act; 2002/95/EC; 76/769/EEC; China MII Methods; Korea RoHS; Japan J-MOSS; US/CA SB-20/50
Mercury/ mercury compounds	Batteries	0.0001% by weight (1 ppm) of battery	batteries	New York : Battery reduction and elimination N.Y. Env'tl. Conserv. § 27-0719; Taiwan Restrictions on the Manufacture, Import, and Sale of Dry Cell Batteries; China QZHG 1997 No. 4: Regulation on mercury content limitation for batteries; Korea: Law on quality management and control of safety of industrial products Battery regulation; 2006/66/EC
Ozone Depleting Substances	All	Intentionally added	refrigerant, foaming agent, extinguishant, solvent cleaner	Montreal Protocol EU EC No. 2037/2000 US Clean Air Act
Perfluorooctane sulfonate (PFOS)	All	Intentionally added	antistatic agent for films and plastics	76/769/EEC and 2006/122/EC; Canadian Environmental Protection Act SOR/SOR/2008-178

Substance/ Category	Reportable Application(s)	Threshold Level (Reporting level)	Examples of Use	Key Legal and Regulatory or industry standard/ agreement citation
Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)	All	Intentionally added	Adhesives, paints, printing inks, plastics, inked ribbons, putty, caulking or sealing fillers	Japan Law concerning the evaluation of chemical substances
Polybrominated Biphenyls (PBBs)	All	0.1% by weight (1,000 ppm) in homogeneous material	Flame retardant	EU Directive 2002/95/EC; China MII Methods; Korea RoHS; Japan J-MOSS
Polybrominated Diphenylethers (PBDEs)	All	0.1% by weight (1,000 ppm) in homogeneous material	Flame retardant	EU Directive 2002/95/EC; China MII Methods; Korea RoHS; Japan J-MOSS
Deca-Bromo diphenylether (Deca-BDE) (PBDE)	TV and computer housings	Intentionally added	Flame retardant	Maine: Title 38 §1609 Restrictions on sale and distribution of brominated flame retardants
Polychlorinated Biphenyls (PCBs) and specific substitutes	All	Intentionally added	insulation oil, lubricant oil, electrical insulation medium, solvent, electrolytic solution; Plasticizers, fire retardants, coatings for electrical wire and cable, dielectric sealants	Japan Law concerning the evaluation of chemical substances; EU Directive 76/769/EEC; US TSCA.
Polychlorinated Terphenyls (PCTs)	All	Intentionally added	insulation oil, lubricant oil, electrical insulation medium, solvent, electrolytic solution; Plasticizers, fire retardants, coatings for electrical wire and cable, dielectric sealants	Japan Law concerning the evaluation of chemical substances; EU Directive 76/769/EEC; US TSCA.
Polychlorinated Naphthalenes (more than 3 chlorine atoms)	All	Intentionally added	lubricant, paint, stabilizer (electric characteristic, flame-resistant, water-resistant) insulator, flame retardant	Japan Law concerning the evaluation of chemical substances
Radioactive substances	All	Intentionally added	optical properties (thorium), measuring devices, gauges, detector	EU-D 96/29/Euratom; Japan Law for the Regulation of Nuclear Source Material, Nuclear Fuel Material, and Reactors, 1986; US NRC

Substance/ Category	Reportable Application(s)	Threshold Level (Reporting level)	Examples of Use	Key Legal and Regulatory or industry standard/ agreement citation
Shortchain Chlorinated Paraffins (C10 – C13)	All	0.1% by weight (1,000 ppm) of the product	plasticizer for PVC, flame retardant	Article 33 and 7.2 of REACH Regulation (EC) No 1907/2006, Norway Product Regulations FOR-2004-06-01-922; Swiss Ordinance on Reduction of Risk from Chemical Products
Certain Tributyl Tin (TBT) and Triphenyl Tin (TPT) compounds	All	Intentionally added	Stabilizer, antioxidant, antibacterial and antifungal agents, antifoulant, antiseptic, anti-fungal agent, paint, pigment, antistaining	Japan Law concerning the evaluation of chemical substances
Tributyl Tin Oxide (TBTO)	All	Intentionally added or 0.1% by weight (1,000 ppm) of the product	antiseptic, antifungal agent, paint, pigment, antistaining, refrigerant, foaming agent, extinguishant, solvent cleaner	Japan Law concerning the evaluation of chemical substances; Article 33 and 7.2 of REACH Regulation (EC) No 1907/2006

< Packaging materials used for the packing of Icom products >

Substance/ Category	Reportable Application(s)	Threshold Level (Reporting level)	Examples of Use	Key Legal and Regulatory or industry standard/ agreement citation
Lead, Cadmium, Mercury, Chromium VI compounds	Packaging materials used for the packing of Icom products	The sum of concentration levels of lead, cadmium, mercury and chromium VI present in packaging or packaging components shall not exceed 100 ppm by weight.	Packaging materials	EU Directive 94/62/EC and EU Directive 2004/12/EC; US regulations on heavy metals in packaging

Substances to be reported

Substance/ Category	Reportable Application(s)	Threshold Level (Reporting level)	Examples of Use	Key Legal and Regulatory or industry standard/ agreement citation
Beryllium Oxide (BeO)	Ceramics	0.1% by weight (1,000 ppm) of the product	ceramics	DIGITALEUROPE/ CECED/AeA/ EERA guidance
Brominated flame retardants (other than PBBs, PBDEs, or HBCDD)	Plastic parts >25 grams other than in Printed Circuit Assemblies	0.1% by weight (1,000 ppm) of the product	flame retardant, printed wiring board laminate, connectors, package molding sealing	DIGITALEUROPE/ CECED/AeA/ EERA guidance
Diarsenic Pentoxide	All	0.1% by weight (1,000 ppm) of the product	glass	Article 33 and 7.2 of REACH Regulation (EC) No 1907/2006
Diarsenic Trioxide	All	0.1% by weight (1,000 ppm) of the product	glass	Article 33 and 7.2 of REACH Regulation (EC) No 1907/2006
Hexabromocyclo dodecane (HBCDD) and all major diastereo isomers	All	0.1% by weight (1,000 ppm) of the product	Flame retardant mainly used for expanded polystyrene and some types of fiber	Article 33 and 7.2 of REACH Regulation (EC) No 1907/2006
Lead/ lead compounds	Batteries	0.004% by weight (40 ppm) of battery	batteries	EU Directive 2006/66/EC
Nickel	All, where prolonged skin contact is expected	Intentionally added	Stainless steel, plating; Example application for prolonged skin contact is an ear bud (headphone)	EU Directive 76/769/EEC and EU Directive 94/27/EC
Perchlorates	All	0.0000006% by weight (0.006 ppm) of the product	Coin cell batteries	US/CA DTSC Rulemaking
Phthalates DEHP DBP BBP	All	0.1% by weight (1,000 ppm) of the product	plasticizer, dye, pigment, paint, ink, adhesive, lubricant	Article 33 and 7.2 of REACH Regulation (EC) No 1907/2006; EU Directive 2005/84/EC
Phthalates DINP DIDP DNOP	Children's toy that can be placed in a child's mouth or Child care article	0.1% by weight (1,000 ppm) of plasticized material	plasticizer, dye, pigment, paint, ink, adhesive, lubricant	EU Directive 2005/84/EC; Consumer Product Safety Improvement Act
Polyvinyl Chloride	All	0.1% by weight (1,000 ppm) of the product	Insulator, chemical resistance, transparency, sheath material	IEEE1680 (EPEAT: Electronic Product Environmental Assessment Tool)
Tris (2-chloroethyl) phosphate (TCEP)	All	0.1% by weight (1,000 ppm) of the product	Flame retardant	ECHA Registry of Intentions