

Toxic Elements Requirements of Different Countries for Toys and Children's Products

Elements	Australia/New Zealand		Canada		China			Japan			USA		
	AS/NZS ISO 8124.3		Toys Regulations		GB 6675.1/ISO 8124.3			Food Sanitation Law	ST Standard Part 3		ASTM F963		
	Any toy material except modeling clay	Modeling clay and finger paint	Paint & surface coating	Children's jewelry (metal or nonmetal)	Finger paint	Modeling clay	Any toy material except modeling clay and finger paint	Paint coating including PVC coating	Coating on toy, ink and the like used for graphic instrument	Children's metallic toys	Paint & similar coating	Any toy material except modeling clay	Modeling clays
	mg/kg		%	mg/kg	mg/kg			mg/kg			ppm		
Antimony (Sb)	Sol. 60	Sol. 60	Sol. 0.1	-	Sol. 10	Sol. 60	Sol. 60	-	Sol. 60	-	Sol. 60	Sol. 60	Sol. 60
Arsenic (As)	Sol. 25	Sol.25	Sol. 0.1	-	Sol.10	Sol.25	Sol. 25	Sol. 25	Sol. 25	-	Sol. 25	Sol. 25	Sol. 25
Barium (Ba)	Sol. 1000	Sol. 250	Sol. 0.1	-	Sol. 350	Sol. 250	Sol. 1000	-	Sol. 1000	-	Sol. 1000	Sol. 1000	Sol. 250
Cadmium (Cd)	Sol. 75	Sol. 50	Sol. 0.1	Tl.130 (small part)	Sol. 15	Sol. 50	Sol. 75	Sol. 75	Sol. 75	-	Sol. 75	Sol.75 Sol.200µg*	Sol. 50
Chromium (Cr)	Sol. 60	Sol. 25	-	-	Sol. 25	Sol. 25	Sol. 60	-	Sol. 60	-	Sol. 60	Sol .60	Sol. 25
Lead (Pb)	Sol. 90	Sol. 90	Tl. 0.009	Tl. 90	Sol. 25	Sol. 90	Sol. 90	Sol. 90	Sol. 90	Sol. 90	Tl. 90# Sol. 90	Tl. 100# Sol. 90	Tl. 100# Sol. 90
Mercury (Hg)	Sol. 60	Sol. 25	Tl. 0.001	-	Sol. 10	Sol. 25	Sol. 60	-	Sol. 60	-	Sol. 60	Sol. 60	Sol. 25
Selenium (Se)	Sol. 500	Sol. 500	Sol. 0.1	-	Sol. 50	Sol. 500	Sol. 500	-	Sol. 500	-	Sol. 500	Sol. 500	Sol. 500
Others	-	-	-	-	-	-	-	-	-	-	-	-	-

ppm = parts per million
Sol. = soluble
mg/kg = milligram per kilogram
Tl. = total

Ni = Nickel
ND = not detected
Sr = Strontium
Elu = Elusion

#Total content as limited by CPSIA
*= metallic toys or metallic toy components which are small parts

Toxic Elements Requirements of 2009/48/EC and EN71-3

Element (mg/kg)	Category I : Dry, brittle, powder-like or pliable material	Category II : Liquid or sticky material	Category III : Scraped off material
Aluminium	5625/2250 [^]	1406/560 [^]	70000/28130 [^]
Antimony	45	11.3	560
Arsenic	3.8	0.9	47
Barium	1500	375	18750
Boron	1200	300	15000
Cadmium	1.3	0.3	17
Chromium (III)	37.5	9.4	460
Chromium (VI)	0.02	0.005	0.053
Cobalt	10.5	2.6	130
Copper	622.5	156	7700
Lead	2.0	0.5	23
Manganese	1200	300	15000
Mercury	7.5	1.9	94
Nickel	75	18.8	930
Selenium	37.5	9.4	460
Strontium	4500	1125	56000
Tin	15000	3750	180000
Organic tin	0.9	0.2	12
Zinc	3750	938	46000

[^]Effective on 20 May 2021