



# Hong Kong Standards and Testing Centre

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## Toxic Elements Requirements of Different Countries for Toys

| Elements      | Australia/New Zealand   |                     | Canada                  |   | Europe  |                     | Japan                                   |  |                              | USA                     |                         |                          |                        |
|---------------|---|---------------------|-------------------------|---|---|---------------------|---|--|------------------------------|-------------------------|-------------------------|--------------------------|------------------------|
|               | AS/NZS ISO 8124-3 : 2002  |                     | Hazardous Products Act  |   | EN71 Part 3 : 1994  |                     | Japan Toy Safety Standard Part 3 : 2002 |  |                              | ASTM F963               | CPSC                    |                          |                        |
|               | Paint & surface coating, Plastic, Paper & board, Textiles, Mass coloured materials, Gel, Graphic instrument, Glass, Ceramic, Metallic materials | Modelling materials | Paint & surface coating | Children's jewelry (metal or non-metal) | Paint & surface coating, Plastic, Paper & board, Textiles, Mass coloured materials, Gel, Graphic instrument, Glass, Ceramic, Metallic materials | Modelling materials | Vinyl Chloride resin coating            | Paint on toy, ink and the like used for graphic instrument | Children's metal accessories | Paint & surface coating | Paint & surface coating | Children's metal jewelry |                        |
|               | mg/kg   |                     | %                       | mg/kg                                   | mg/kg   |                     | mg/kg                                   |  |                              | ppm                     | %                       | %                        |                        |
| Antimony (Sb) | Sol. 60   | Sol. 60             | Sol. 0.1                | -                                       | Sol. 60   | Sol. 60             | -                                       | Sol. 60  | Sol. 60                      | -                       | Sol. 60                 | -                        | -                      |
| Arsenic (As)  | Sol. 25   | Sol. 25             | Sol. 0.1                | -                                       | Sol. 25   | Sol. 25             | Elu. 0.1                                | Sol. 25  | Sol. 25                      | -                       | Sol. 25                 | -                        | -                      |
| Barium (Ba)   | Sol. 1000   | Sol. 250            | Sol. 0.1                | -                                       | Sol. 1000   | Sol. 250            | -                                       | Sol. 1000  | Sol. 1000                    | -                       | Sol. 1000               | -                        | -                      |
| Cadmium (Cd)  | Sol. 75   | Sol. 50             | Sol. 0.1                | -                                       | Sol. 75   | Sol. 50             | Elu. 0.5                                | Sol. 75  | Sol. 75                      | -                       | Sol. 75                 | -                        | -                      |
| Chromium (Cr) | Sol. 60   | Sol. 25             | -                       | -                                       | Sol. 60   | Sol. 25             | -                                       | Sol. 60  | Sol. 60                      | -                       | Sol. 60                 | -                        | -                      |
| Lead (Pb)     | Sol. 90   | Sol. 90             | Tl. 0.06                | Tl. 600<br>Sol. 90                      | Sol. 90   | Sol. 90             | Elu. 1                                  | Sol. 90  | Sol. 90                      | Sol. 90                 | Tl. 600<br>Sol. 90      | Tl. 0.06                 | Tl. 0.06<br>Sol. 175ug |
| Mercury (Hg)  | Sol. 60   | Sol. 25             | Tl. 0.001               | -                                       | Sol. 60   | Sol. 25             | -                                       | Sol. 60  | Sol. 60                      | -                       | Sol. 60                 | -                        | -                      |
| Selenium (Se) | Sol. 500  | Sol. 500            | Sol. 0.1                | -                                       | Sol. 500  | Sol. 500            | -                                       | Sol. 500   | Sol. 500                     | -                       | Sol. 500                | -                        | -                      |
| Others        | -   | -                   | -                       | -                                       | -   | -                   | -                                       | -  | -                            | -                       | -                       | -                        | -                      |

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

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