

# Infant carriers (wraps, structured carriers): HMTc Standard

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## KEYWORDS

heavy metals, food safety, dietary exposure

## PUBLICATION HISTORY

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## CORRESPONDENCE

Corrections are logged publicly on the article page, each with its date, the affected value, and the source that resolved it.

## Abstract

The Heavy Metal Tested & Certified heavy-metal-safety standard for infant carriers (wraps, structured carriers) in Infant and Child Durable Goods and Textiles (Ages 0-5), evaluated on total element content of the accessible component material (mg/kg of component; dried non-volatile film for coatings): a content basis, not a migration or extraction basis. 5 of 11 panel analytes publish a numeric limit taken from the strictest applicable government maximum; the remainder are held under mandatory control or a substantiated not-material determination.

## 1 | How every number on this standard is set

HMTc Method v2.0 (government-limit-only): the strictest applicable maximum set by a credible sovereign government for this exact product form in the row's declared native basis; a disclosed read-across from the nearest applicable sovereign cell where the exact cell is unregulated; a substantiated not-material determination where the analyte is a species bounded by a published parent; and a control with a named reference method where neither a sovereign value nor a supportable read-across exists. Never occurrence-derived.

## 2 | Master limit table

All values in ppb (µg/kg), as sold basis. A brand meeting every value qualifies for the mark.

| ANALYTE | TIER | HMTc LIMIT | BASIS |
|---------|------|------------|-------|
|---------|------|------------|-------|

|                             |        |             |                                          |
|-----------------------------|--------|-------------|------------------------------------------|
| Lead (Pb)                   | Tier 1 | 90,000      | government maximum level                 |
| Cadmium (Cd)                | Tier 1 | 75,000      | human-grade read-across (I)              |
| Total arsenic (tAs)         | Tier 2 | 25,000      | human-grade read-across (AU)             |
| Inorganic arsenic (iAs)     | Tier 1 | ≤ tAs       | bounded by tAs (reflex speciation)       |
| Mercury, total (tHg)        | Tier 1 | 10,000      | human-grade read-across (Canada)         |
| Methylmercury (MeHg)        | Tier 1 | ≤ tHg       | bounded by tHg (reflex speciation)       |
| Nickel (Ni)                 | Tier 2 | 930,000     | human-grade read-across (European Union) |
| Tin (Sn)                    | Tier 2 | 180,000,000 | human-grade read-across (European Union) |
| Aluminium (Al)              | Tier 2 | 28,130,000  | human-grade read-across (European Union) |
| Total chromium (Cr)         | Tier 2 | 60,000      | screening ceiling (AU)                   |
| Hexavalent chromium (Cr-VI) | Tier 2 | 3,000       | human-grade read-across (European Union) |

### 3 | Derivation — where each number comes from

Every cell traces to one named sovereign maximum level (the strictest for the nearest analog), or to an explicit control, not-material, or species-bounded determination. No occurrence statistic selects a certification value.

| ANALYTE                 | HMTC   | SOVEREIGN ANALOG / DETERMINATION                                                                                                                                                              |
|-------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lead (Pb)               | 90,000 | government maximum level                                                                                                                                                                      |
| Cadmium (Cd)            | 75,000 | — human-food analog                                                                                                                                                                           |
| Total arsenic (tAs)     | 25,000 | AU — human-food analog                                                                                                                                                                        |
| Inorganic arsenic (iAs) | ≤ tAs  | iAs carries no product-specific sovereign cell; it is a component of and bounded by its parent total tAs (iAs ≤ tAs), an enforceable ceiling via reflex speciation rather than an empty cell. |

|                             |             |                                                                                                                                                                                                 |
|-----------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mercury, total (tHg)        | 10,000      | Canada — human-food analog                                                                                                                                                                      |
| Methylmercury (MeHg)        | ≤ tHg       | MeHg carries no product-specific sovereign cell; it is a component of and bounded by its parent total tHg (MeHg ≤ tHg), an enforceable ceiling via reflex speciation rather than an empty cell. |
| Nickel (Ni)                 | 930,000     | European Union — human-food analog                                                                                                                                                              |
| Tin (Sn)                    | 180,000,000 | European Union — human-food analog                                                                                                                                                              |
| Aluminium (Al)              | 28,130,000  | European Union — human-food analog                                                                                                                                                              |
| Total chromium (Cr)         | 60,000      | government maximum level                                                                                                                                                                        |
| Hexavalent chromium (Cr-VI) | 3,000       | European Union — human-food analog                                                                                                                                                              |

4 | Cite this standard

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References

- [1] AU — human-food maximum levels  
Binds tAs. Strictest applicable human-food sovereign maximum for the nearest analog.  
MAXIMUM LEVEL
- [2] Canada — human-food maximum levels  
Binds tHg. Strictest applicable human-food sovereign maximum for the nearest analog.  
MAXIMUM LEVEL
- [3] European Union — human-food maximum levels  
Binds Ni, Sn, Al, Cr-VI. Strictest applicable human-food sovereign maximum for the nearest analog.  
MAXIMUM LEVEL

STATUS AND LICENCE

A normative certification standard, editorially reviewed and version-controlled in-house; every value traces to a named sovereign maximum level, disclosed in the derivation. © 2026 Institute of Contaminant Standards / Heavy Metal Certified. All rights reserved.

COMPETING INTERESTS

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own certification thresholds are not used as evidence for any factual claim made here.

#### DATA AVAILABILITY

The works this reference draws on are listed in full in the references above and on the briefing page at <https://heavymetalcertified.com/standards/infant-carriers>. Primary legal instruments and expert-body assessments are named with their public identifiers; the underlying occurrence and toxicology corpus is maintained on the Heavy Metal Index.

#### PUBLICATION HISTORY

This revision 2026-08. The full dated record is maintained at <https://heavymetalcertified.com/standards/infant-carriers>.