



## Heavy Metal

New Criteria:

- Exemption (stickers & printed textiles)
- 75ppm total cadmium screening for extractable cadmium on metal small part

HDXRF as an alternative for homogenous plastic (polymeric) materials



## Microbiological

Cleanliness test

Expanded scope including avian feather origin

CTFA Microbiology Guidelines (alternative test method)



## Stuffing Material

Revised evaluation to visual inspection by microscope



## Sound Producing Toys

Maximum A-weighted sound pressure limit for sound produced by translational motion of floor / table top toys

Increased C-weighted peak limit (95dB to 110dB) for close-to-ear toys

Changed test and evaluation procedures closer to EN 71-1 and ISO 8124-1



## Mouth-Actuated Toys

Added requirement (e.g. projectile launched by user blowing into discharge mechanism)



## Cords, Straps, and Elastics in Toys

Exempted related free length and loop on straps used for waist restraints on ride-on toys



## Ride-on Toys – Stability

Wheels centered on same axle / axis spacing of <5.9 in. between centers of outermost wheels are considered to be a single wheel (EN 71-1)



## Projectile Toys

Added Kinetic Energy Density ( $\leq 2500 \text{ J/m}^2$ ) for projectile toys with stored energy and projectiles in form of an arrow

New 'tip assessment gauge' for rigid leading edges

Exempted certain projectiles (travelling less than certain distance)

Determined if projectile toy could launch in hazardous manner

List of improvised projectiles with dimensions (e.g. pen refill, marble, coins) common to be reached by children

New Requirements for projectiles with:

- Stored energy

- Suction cup as leading edge including dimension before and after abuse tests

- Rotors intended to rotate in a horizontal plane



## Squeeze Toys

Only portion of toy with squeeze function



## Battery-Operated Toys

Significant concerns for lithium ion / lithium ion polymer batteries / cells in toys

Marking on button and coin cell batteries



## Magnets

Added soaking test (part of test procedures for wooden toys, water toys and mouth pieces of mouth-actuated toys with magnets and magnetic components)



## Expanding Materials

New components that could expand if accidentally swallowed



## Toy Chests

ASTM F834-84 has been withdrawn and now part of ASTM F963-16

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