



A CPSC Accredited Laboratory for:

Lead in Paint (16 CFR 1303), Lead in Metal Products and
Lead in Non-Metal Products.

Chemserve will be CPSC Accredited for Phthalates as
soon as the CPSC posts that Accreditation

Also accredited by NELAC and ISO 17025

Lead Testing on Coatings, Metal and Non-Metal Products

Sec. 101. Children's products containing lead; lead paint rule.
16 CFR 1303 Furniture articles for consumer use that bear "lead-containing paint".

CPSC-CH-E1003-09: Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings

CPSC-CH-E1002-08: Procedure for Determining Total Lead (Pb) in Non-Metal Products

CPSC-CH-E1001-08: Procedure for Determining Total Lead (Pb) in Children's Metal Products

The Lead methods summarized

- 5-100 mg of each color coating is scraped off from the finished product, or the part is cut or ground up and a 5-100 mg portion is utilized
- For smaller coated pieces multiple products may be used to obtain sufficient samples size. (like color composite) (coatings only). Also compositing of non-like colors is allowed but not recommended. Compositing non-coatings is not acceptable
- The product or coating material must then be digested with a strong acid (usually HNO₃) via acceptable digestion technique. The preferred method is microwave assisted digestion. Other techniques may be utilized provided complete digestion occurs.

The Lead methods summarized (cont.)

- Sample is analyzed by Inductively Coupled Plasma Spectroscopy (ICP)
- Other acceptable techniques could include Atomic Absorption (AA), or ICP-Mass Spectroscopy (ICPMS). Techniques must meet the quality assurance and detection limits within the acceptable method.
- Results are then reported on a dry weight basis as total lead (mg/Kg) (PPM).

Current Regulatory Limits For Lead

Lead in Paint:

Limit 90 ppm Effective-August 14, 2009

Total Lead Content for metal and non-metal Children's Products:

Limit 300 ppm Effective-August 14, 2009

Chemserve Detection Limits and Turn Around Time

Lead in Paint Detection Limit is 12.5 mg/kg (PPM)

Lead in Metal Products Detection Limit is 70.0 mg/kg (PPM)

Lead in Non-Metal Products Detection Limit is 12.5 mg/kg (PPM)

Standard Turn Around Time for most samples is 5 to 10 working days

Partial List of Exemptions for Lead Testing

- Wood (excluding composite wood)
- Paper and similar materials made from wood or other cellulose fiber, including, but not limited to, paperboard, linerboard and medium, and coatings on such paper which become part of the substrate
- Textiles (excluding after-treatment applications, including screen prints, transfers, decals, or other prints) consisting of:
 - Natural fibers (dyed or undyed)
 - Manufactured fibers (dyed or undyed)
- Inaccessible parts

Samples of like and non-like coatings may now be composited:

- Based on the detection limit there may be no more than five colors composited
- There is a cost savings on analysis but not sample prep charges
- Results must be reported as mathematically calculated by sample weight percent
- Result must be evaluated based on 80% of the regulatory limit for compliance (72 PPM)

Examples of items that will need to be tested for lead on “Children’s Products”:

All coatings (each color is a separate sample)

Hardware (different types of parts are different samples)

Plastic parts or decorations

Metal parts or decorations

Non-fiber fabrics (plastic, foam, etc.)

Accessible glue material

Sec. 102. Mandatory third party testing for certain children's products

- Third Party Testing is currently required for Lead in coatings and Lead in metal jewelry.
- Third Party Testing will be required for Lead contents and Phthalates on February 10, 2010 when the “Stay” terminates.
- Third Party testing **MUST** be performed by a CPSC accredited laboratory.

Sec. 108. Prohibition on sale of certain products containing specified phthalates.

- There currently is no screening techniques for phthalate analysis

CPSC-CH-C1001-09.2: Procedure for Determination of Phthalates GC/MS w/microwave assisted extraction

- Currently there are 6 or 7* of the regulated phthalates may be Analyzed by this technique.
 - This method is a destructive analysis

* CA Prop 65 includes the additional phthalate Di-N-Hexyl Phthalate



Services and Capabilities

- CPSC Accredited Third Party Testing for Lead, Phthalates, and F963 Dissolved Metals
- XRF Screening on-site and/or in our laboratory
 - Environmental Testing
 - ASTM Testing

Q & A



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