## Elements of an Effective Lead Paint Law: U.S. Approach & Recommendations

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## U.S. Ban Strengthen Over Time

Regulation under Federal Hazardous Substances Act banned any paint or similar coating with lead content >0.5% (5000 ppm) total weight of dried paint film.

Consumer Product Safety Commission (CPSC) regulation reduced total lead limit in consumer paint to 600 ppm.

Amended law reduced total lead limit to 90 ppm.

1972

1977

2008

## U.S. Ban Strengthen Over Time

### Main drivers to reduce lead in consumer paints:

- 1972: New U.S. health data. High percentage of young children with unacceptably high blood lead levels. (1977 regulation lowered lead limit in consumer paints from 5000 ppm to 600 ppm)
- 2007-2008: Major increase in <u>imported children's products with high</u> <u>levels of lead</u> in paint and substrate. 2008 law:
  - Lowered lead limit lead in consumer paints from 600 ppm to 90 ppm,
  - Increased enforcement authorities, and required certification of conformity for children's products based on 3<sup>rd</sup> party testing.
- U.S. limit of 90 ppm total lead content is a technology-based, not health-based standard. Goal is to reduce lead content as low as technically feasible.

## Scope of Consumer Ban

#### Includes:

- Paint for consumer use or use on surfaces with public access (homes, schools, hospitals, parks and other public spaces)
- Toys & other children's products with "leadcontaining paint"
- Certain furniture articles for consumer use with "lead-containing paint"

#### **Excludes:**

- Paint on motor vehicles and boats.
- Industrial and agricultural uses.

Restricts "lead content" calculated (as lead metal) by the weight of the total nonvolatile content of the paint or the weight of the dried paint film.

### Implementation of U.S. Lead Paint Law

U.S law allowed initial phase-out of existing stocks of consumer paints, by selling the paint:

1977 Law—Manufacturers allowed six months to phase out paint stock with lead > 600 ppm

**2008 Law**—Manufacturers allowed **one year** to phase out paint stock with lead > 90 ppm

## Compliance mechanisms

## 1. Certification requirements for manufacturers and importers:

**Paint**: Manufacturers must self-certify that lead content is < 90 ppm, based on lab tests.

- Certification is based on test of each product or on a reasonable testing program.
- Must re-certify and re-test if any change to ingredients.

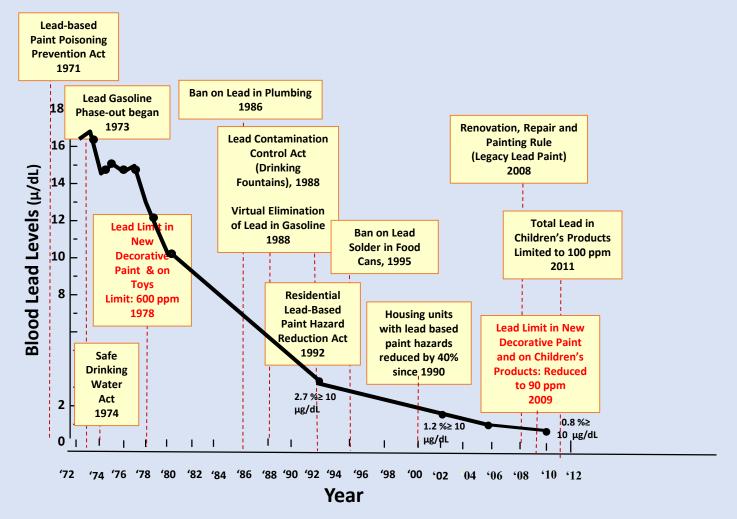
Children's products: Manufacturers must use government-accepted 3<sup>rd</sup>-party laboratory to certify lead in paint is < 90 ppm.

## Compliance Mechanisms (cont.)

# 2. Government monitoring and enforcement program:

- Manufacturers are subject to inspection by the government.
- Failure to meet the requirements subjects the company to a significant penalty or even seizure of the products.

# Impact of Lead Poisoning Prevention Policies on Reducing Children's Blood Lead Levels (USA)



# Key Government Agencies Involved in Lead Paint Issues

### **Consumer Product Safety Commission (CPSC)**

 Enforces ban on new lead paint over 90 ppm total lead for consumers

#### **Centers for Disease Control & Prevention (CDC)**

- Defines blood lead levels of concern (action levels) for children & adults
- Collects statistics on children's blood lead levels

### **Environmental Protection Agency (EPA)**

- Regulates activities related to legacy lead paint
- Provides public education on legacy lead paint

### Recommendations Based on U.S. Experience

- Low concentration limit for lead in paint (90 ppm total lead).
- Ban on all types of paints over the lead limit (not just consumer use).
- Mandatory certification requirements, based on international accreditation programs.
- Effective compliance and enforcement program.
- Close coordination among health, environmental and other relevant government agencies.

### Recommendations Based on U.S. Experience (cont.)

#### Certification

- Specify who must provide the certification manufacturers, importers, etc.
- Specify what information must be provided in the certification.
- Specify where the information must be submitted.
- Consider requiring the use of existing standards and internationally accepted protocols (ISO, ASTM).

### Thank You



#### Technical contact for further information:



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