

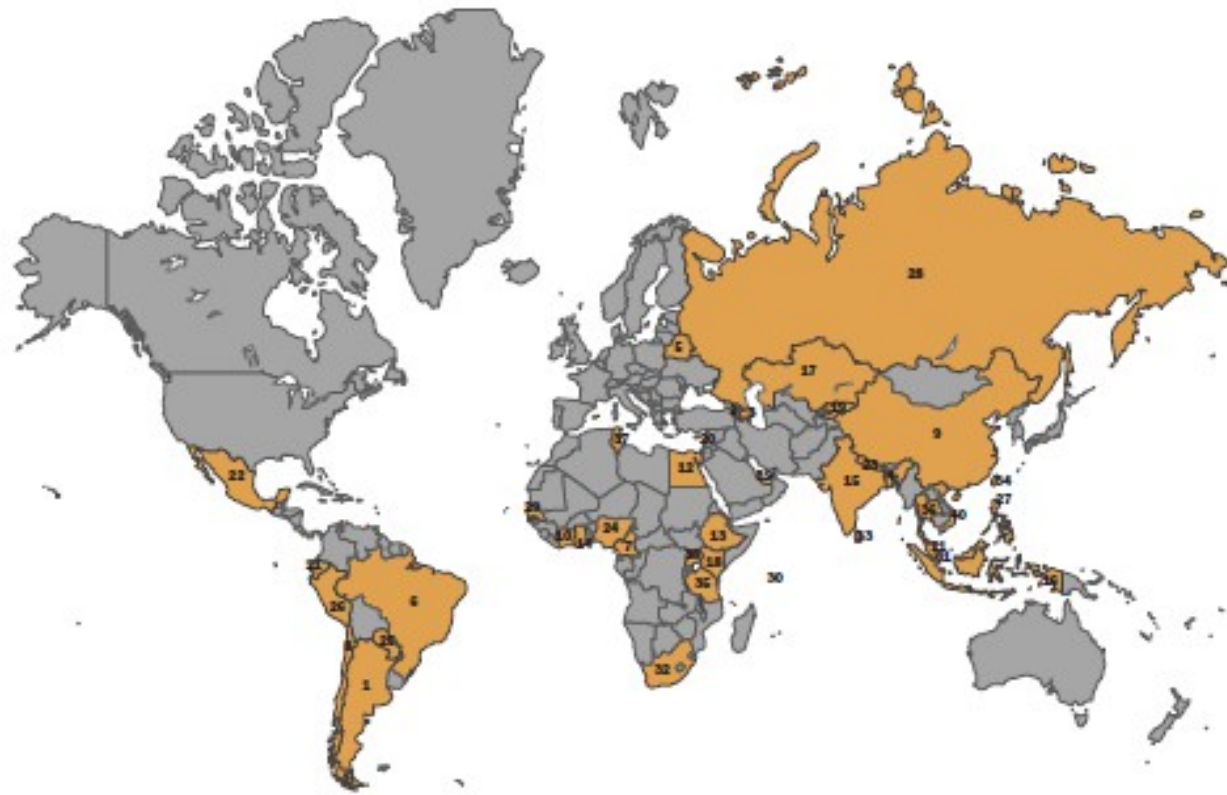


Legal framework on lead paints in Ecuador





Background



- The high level of lead in paint found in some countries in Andean Region as Ecuador (32000 ppm), Perú (11600 ppm) show the necessity of develop a regional project to reduce the content to safe levels.

According to Environmental Health Perspectives, Lead-Based Decorative Paints (april, 2014), Ecuador is one of the 40 countries in the world that continues sell paint with lead.

The journal Environmental Research published the article “Lead levels in new enamel household paint from Asia, Africa and South America” (2009). The research was developed with 337 samples of paint, of which 10 were collected in Ecuador. These presented the highest average lead concentration of 31960 ppm. Colors with higher content of lead are yellow, orange, green and red.



Ecuadorian Technical Standard NTE INEN 1544:2015

According to the Ecuadorian Technical Standard **NTE INEN 1544**, the maximum level of lead that paints might contain is of one hundred parts per million (100 ppm), determined on a dry basis. It applies to:

Type 1

For indoor and outdoor with high scrub resistance and high washability.

Type 2

For indoor and outdoor with medium scrub resistance and medium washability.

Type 3

For Indoor low scrub resistance and not washable, recommended for areas that should not be subjected to washing.

Type 4

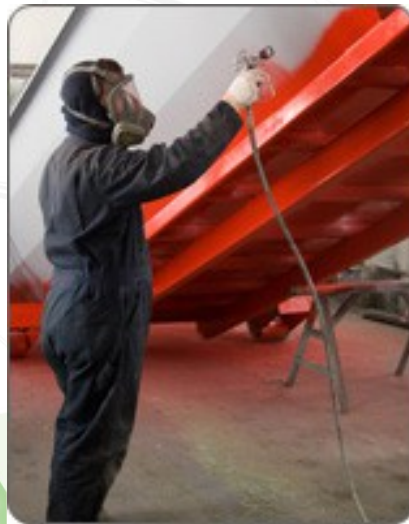
For private skies and indoors with low scrub resistance, recommended for areas that should not be subjected to washing



Ecuadorian Technical Standard NTE INEN 2095:98

Paints of Synthetic enamels alkyd for vehicles.

This type of paintings must have a maximum of 5% in lead concentration





Ecuadorian Technical Standard

NTE INEN-ISO 8124-3

- Lead in toys is regulated by the technical standard NTE INEN-ISO 8124-3: Safety of toys, Part 3 Migration of certain elements (ISO 8124-3:2010, IDT). This includes **lead** and other toxic substances (Cd, Sb, Ba, Cr, Hg, Se, As)





Trade

- By 2013, the painting production in Ecuador was over 58,000 tons by 39 industries.
- Industries are mainly located in Guayas (47%), Pichincha (37%) and Azuay (8%).
- 95% of the national production are in four companies: ADHEPLAS, Pinturas Cóndor, Pinturas Ecuatorianas and Pinturas Unidas





Import of paints

■ 3208 ■ 3209 ■ 3210

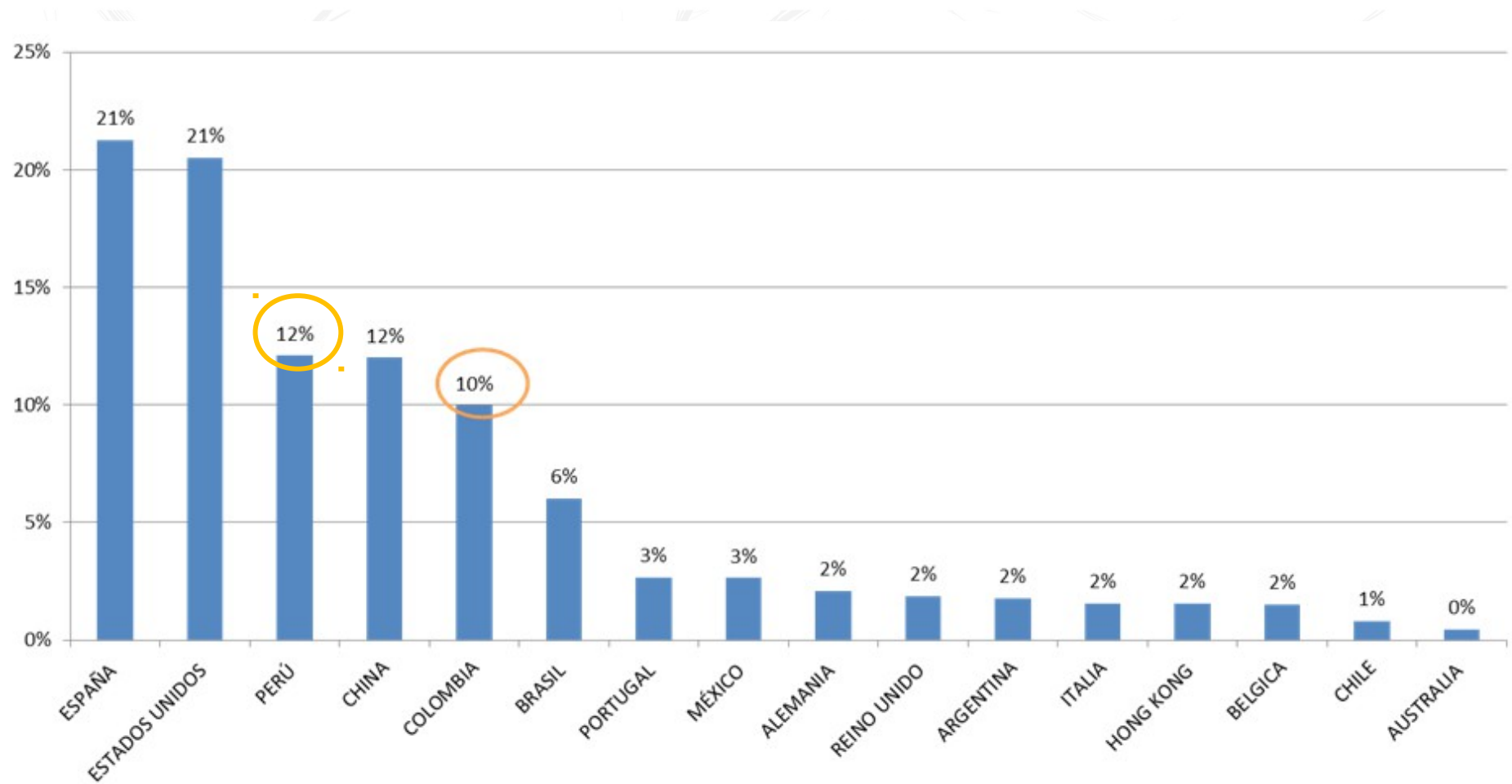
Industries of paint in Ecuador only make mixtures of imported raw materials



- **32.08:** Paints and varnishes based on synthetic polymers or modified natural, dispersed or dissolved in a non aqueous medium.
- **32.09:** Paints and varnishes based on synthetic polymers or modified natural, dispersed or dissolved in an aqueous medium.
- **32.10:** Other paints and varnishes; prepared water pigments



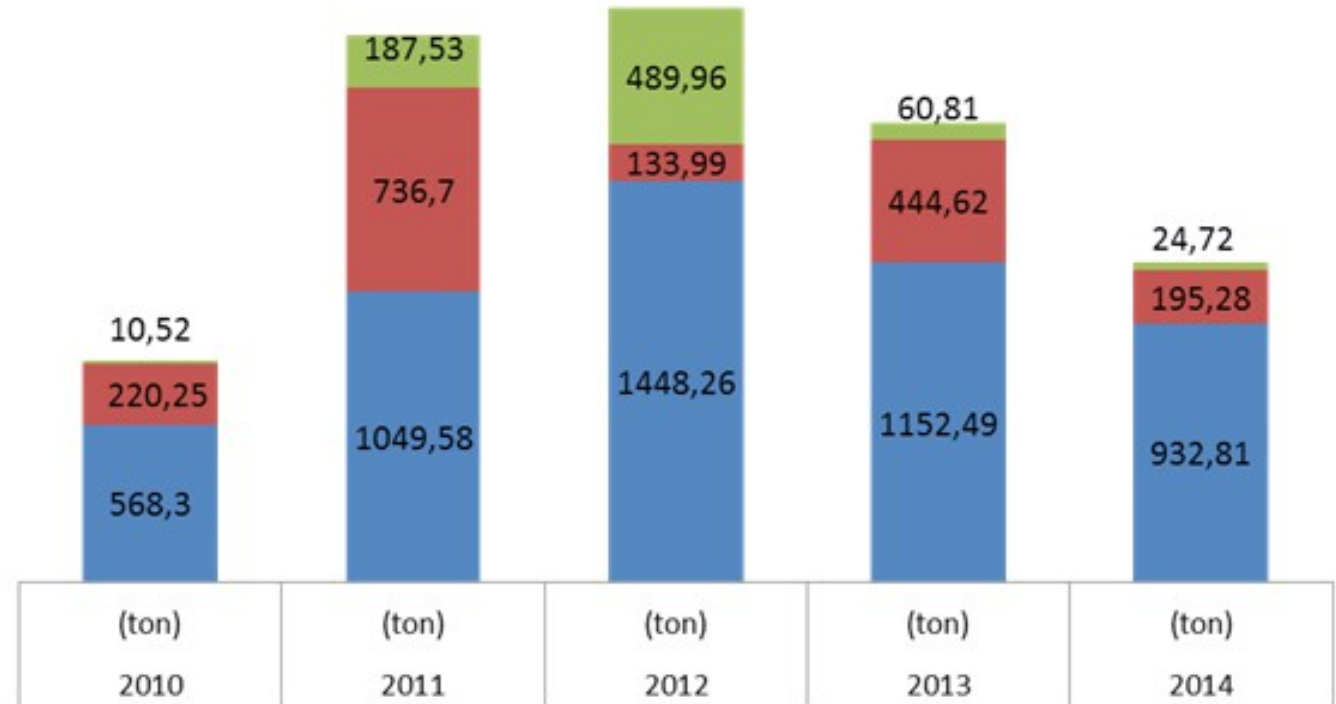
Import of paints (2014)





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Export of paints



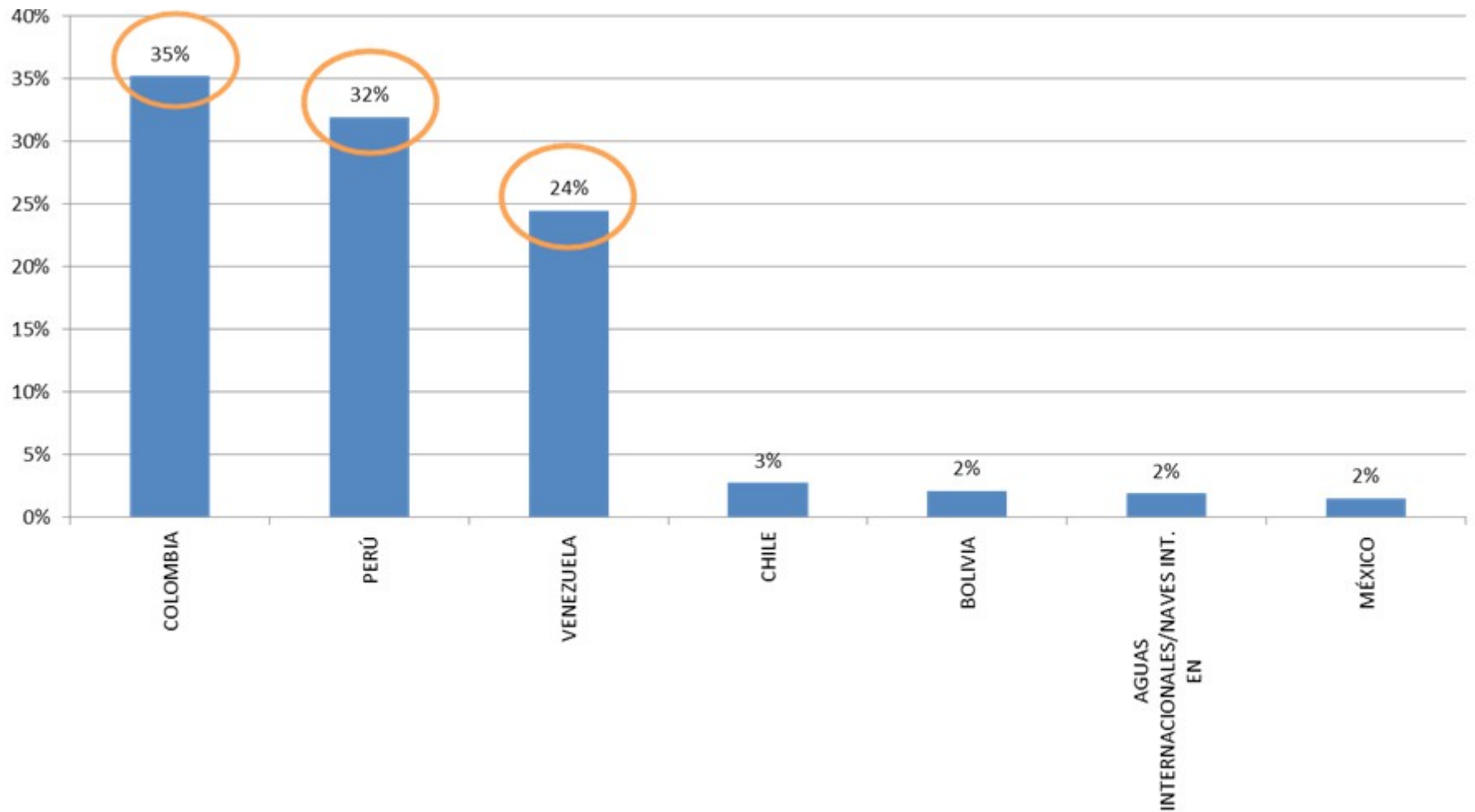
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Export of paints (2014)





Public information, Awareness and Education

The public information on the risks of paints containing lead is not available.

There has not been awareness related to the exposure effects of lead paint use on human health and environment.

There is no awareness to employers and workers in the construction industry of the dangers of lead paint and measures to be taken to control those risks.



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