



# IPEN paint studies - Brief overview



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# IPEN - A Global NGO Network



- IPEN Participating Organizations in 125 Countries working on
  - Persistent Organic Pollutants
  - Toxic Metals: (e.g. Lead and Mercury)
  - Chemical Safety (SAICM)
- Lead Paint Elimination Campaign since 2009

**Aim:** Assess availability of lead paint on the market to

- provide justification and stakeholder support for new or strengthened regulations
- engage paint manufacturers
- build awareness and provide information to consumers

## Approach:

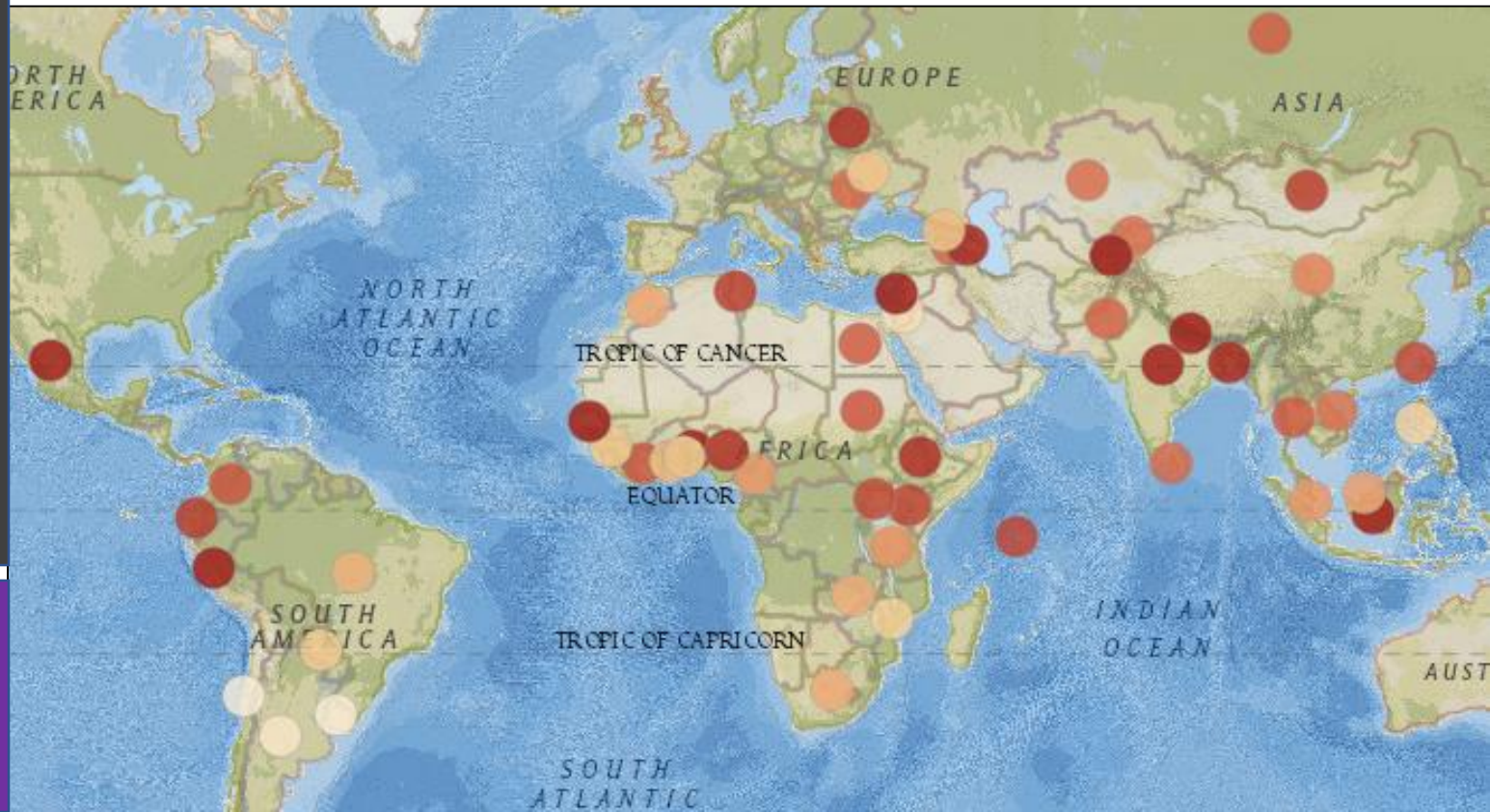
- Solvent-based, brightly colored paints that are commonly used in homes, schools, playgrounds
- Not intended to analyze all paints available
- Accredited lab for reliable data



Photo credit: BaliFokus/IPEN

# Data available from 58 countries

<http://www.ipen.org/projects/eliminating-lead-paint/lead-levels-paint-around-world>



# Data available in LAC region

Country	% > 90 ppm	Highest Lead Level	No. sampled paints	Study Year
Argentina	14	100,000	42	2017
Brazil 1	42	170,000	24	2009
Brazil 2	35	59,000	20	2014
Chile	4	1,100	23	2013
Colombia	72	250,000	39	2016
Ecuador	70	N/A	10	2009
Mexico 1	100	164,000	20	2009
Paraguay	27	169,000	15	2015
Peru	90	N/A	10	2009
Uruguay	0	63	30	2013

# Casa Cem- Vías Verdes A.C.

**Mexican NGO, IPEN member since 2016**

Since 2007, our organization has been working on education, communication, management, research and public policy projects related to waste and chemicals for the protection of the human right to a safe environment.



# Report: Lead in Solvent-Based Paints for Household Use in Mexico

## PLOMO EN PINTURAS A BASE DE SOLVENTES PARA USO DOMÉSTICO EN MÉXICO

Octubre 2018



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Suecia  
Sverige



un futuro sin tóxicos

# Mexico study

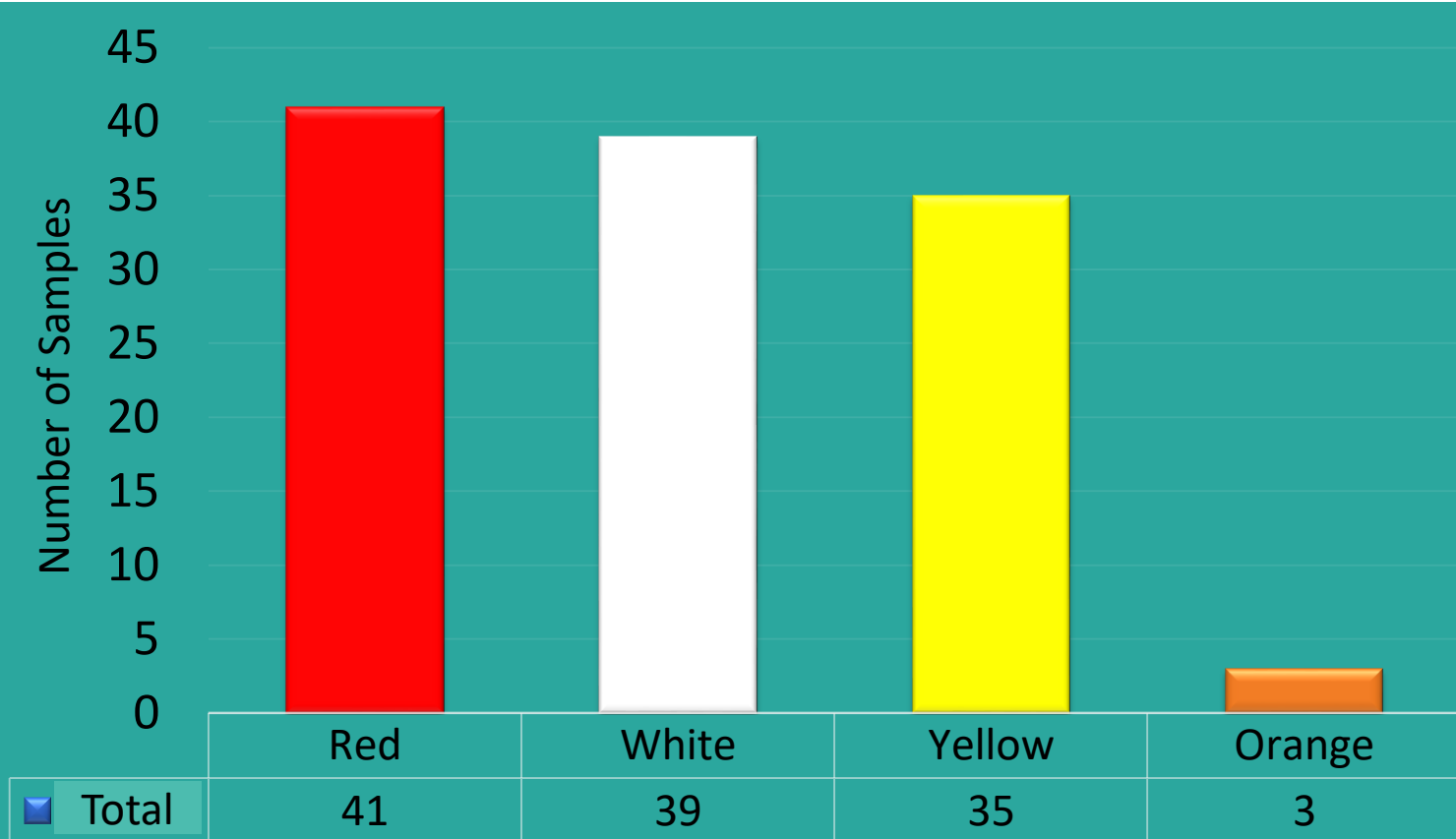
# Samples



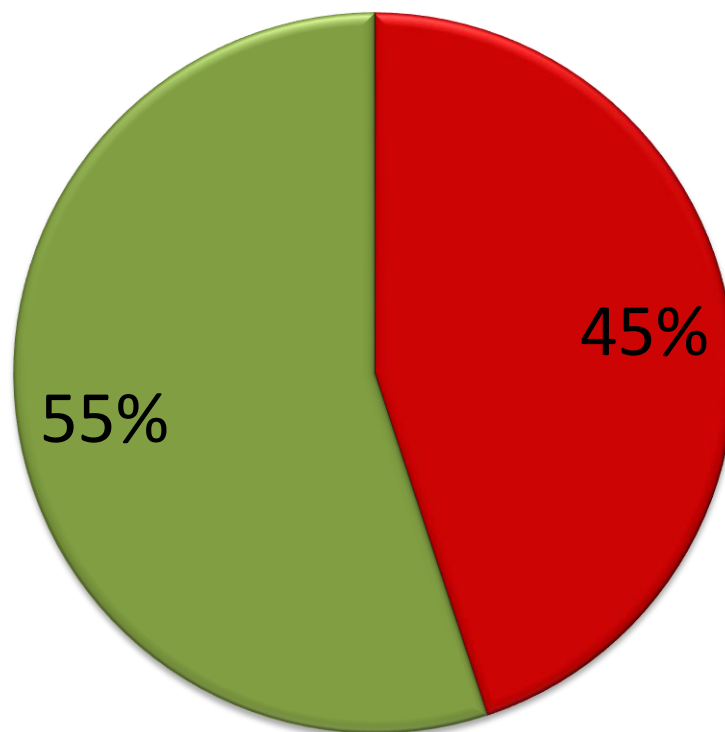
# Total samples analyzed

118 Containers of solvent-based paints for domestic or industrial use available to consumers in Mexico were analyzed.

The paints represent 39 different brands produced by 38 manufacturers.



# Percentage of samples determined below and above 90 ppm of lead

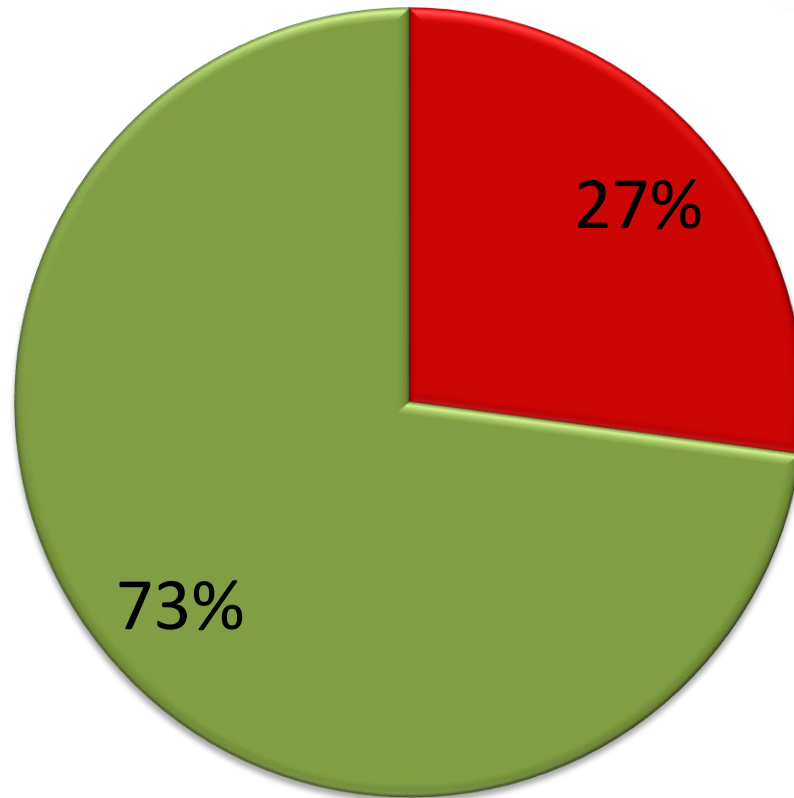


■ Samples above 90 ppm of lead

■ Samples below 90 ppm of lead



From samples determined  
above 90 ppm of lead,  
Percentage above and below  
10,000 ppm



■ Samples above 10,000 ppm ■ Samples below 10,000 ppm



# Mexico study

## Higher concentrations of lead per color (ppm)



# Comparison of results between 2009 and 2018 reports

	Latest study	Previous study
Number of Paint samples analyzed	118	20
% of samples with lead concentrations above 90 ppm.	45	100
% of samples with lead concentrations above 600 ppm.	44	100
% of samples with lead concentrations above 10,000 ppm.	27	100
% of samples with lead concentrations below 90 ppm.	55	0
Maximum concentration of lead (ppm).	200,000	164,000
Lowest concentration of lead (ppm).	< 60	23,800



# Mexico study

## Paint brands that declare to have lead in their labels but tested below 90 ppm

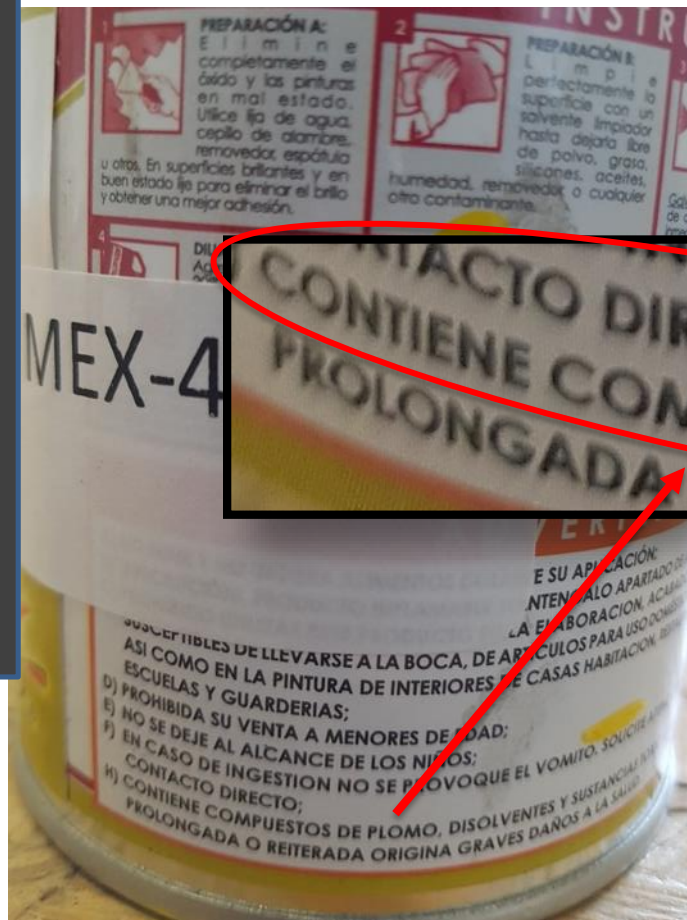
Sample	Color	(ppm)
MEX_19	White	< 60
MEX_24	White	< 60
MEX_27	Red	< 60
MEX_29	Red	90
MEX_40	Red	< 60
MEX_41	White	< 60
MEX_42	Yellow	< 60
MEX_54	Red	< 60
MEX_55	White	< 60
MEX_83	Yellow	< 60
MEX_84	White	< 60
MEX_101	White	< 60
MEX_118	White	< 60



# Mexico study

Declares to have lead compounds but tested below 90 ppm of lead

Sample: Mex\_42  
Results: <60 ppm



Contains lead compounds



Paint brands that claim to be lead-free products and were above 90 and 600 ppm (per color)

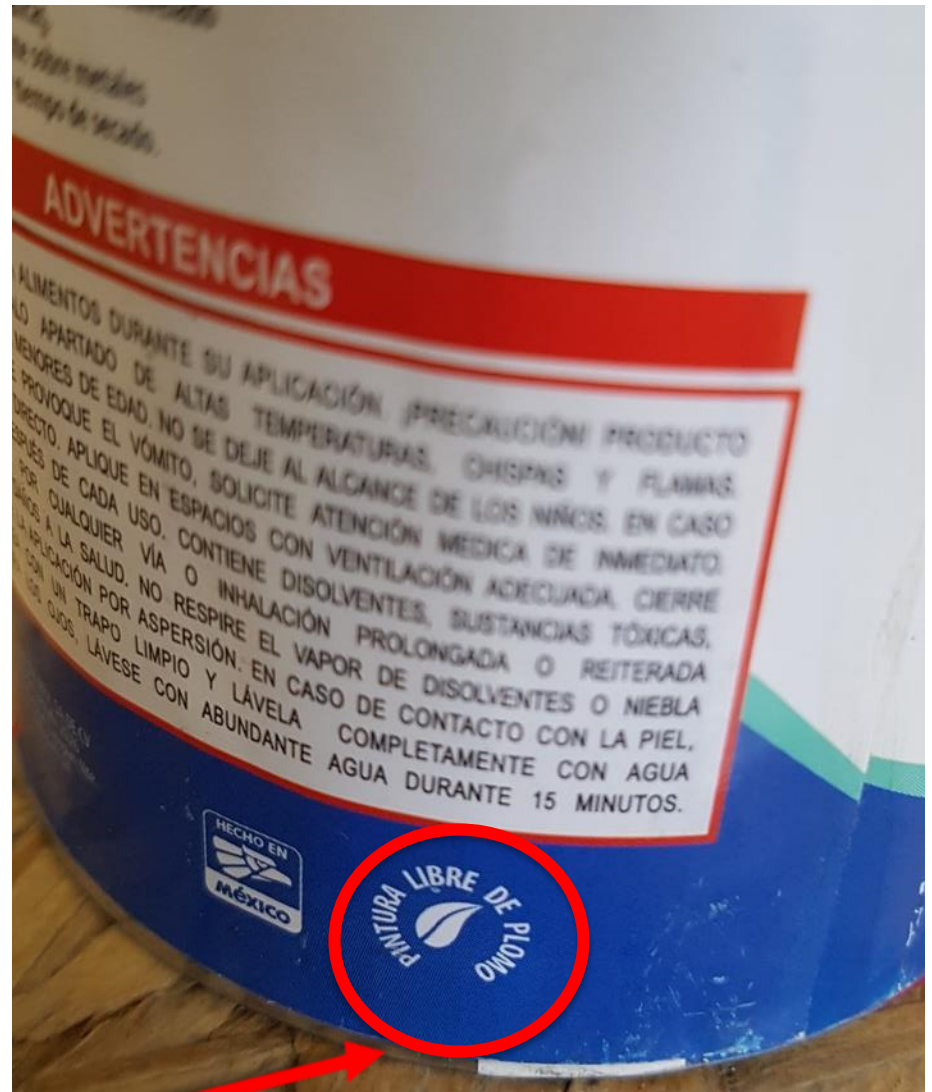
Sample	Color	(ppm)
MEX_25	White	5,700
MEX_26	Red	6,700
MEX_28	Yellow	130,000
MEX_69	Red	2,700
MEX_87	Red	6,700
MEX_108	Red	11,000
MEX_110	Yellow	54,000



# Mexico study

Declares  
not to have  
lead but  
tested over  
90 ppm

Sample: Mex\_108  
Results: 11,000 ppm



Lead free paint



## SECRETARIA DE SALUD

**MODIFICACION de la NOM-003-SSAI-1993, Salud ambiental. Requisitos sanitarios que debe satisfacer el etiquetado de pinturas, tintas, barnices, lacas y esmaltes, para quedar como: NOM-003-SSAI-2006, Salud ambiental. Requisitos sanitarios que debe satisfacer el etiquetado de pinturas, tintas, barnices, lacas y esmaltes.**

### 11. Vigencia

11.1 La presente Norma Oficial Mexicana entrará en vigor con su carácter obligatorio, a los 550 días siguientes de su publicación en el Diario Oficial de la Federación.

February 5th, 2010

Viernes 2 de mayo de 2014

DIARIO OFICIAL

(Segunda Sección)

## SEGUNDA SECCION

## PODER EJECUTIVO

## SECRETARIA DE SALUD

**NORMA Oficial Mexicana NOM-004-SSAI-2013, Salud ambiental. Limitaciones y especificaciones sanitarias para el uso de los compuestos de plomo.**

### TRANSITORIOS

**PRIMERO.-** Las personas físicas y morales que tengan en punto de venta productos que contengan compuestos de plomo, contarán con 5 años, contados a partir de la entrada en vigor de la presente Norma, para agotar la existencia de aquellos que no cumplan con las disposiciones de ésta.

May 3rd, 2019



## Paints commercialized in milk containers

Some of the paints sampled were purchased in plastic containers and not in labeled cans, which implies that the consumer does not have access to the precautionary information. Some samples of white paint were bought in original milk containers, which represents a high risk of ingestion especially in children.



## Follow up activities



1. Release of the Report during the International Lead Poisoning Prevention Week of Action 2018.

2. Public presentation of the Report.

3. Meeting with the National Association of Paint and Ink Manufacturers in Mexico.

4. Review of lead in paint standards in Mexico and submission of comments and recommendations to the National Commission for Regulatory Improvement (CONAMER).



# Socioeconomic cost of lead exposure in Mexico

The economic consequences of early exposure to lead and the effects on neurodevelopment in children are estimated at 1.86% of GDP in the Mexican economy.



# JUGAR CON **PLOMO** **NO** ES COSA DE NIÑOS



**EN MÉXICO, LOS NIÑOS ESTÁN EXPUESTOS A  
PINTURAS BASE SOLVENTE CON CONTENIDO DE  
PLOMO DE HASTA 200,000 PARTES POR MILLÓN.**

Las consecuencias económicas por los efectos en el neurodesarrollo de niños expuestos al plomo equivalen al 1.86% del Producto Interno Bruto del país.