



WORLDWIDE DATA ON LEAD IN PAINT: PUBLISHED STUDIES AND REPORTS



2015

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PUBLISHED LEAD PAINT STUDIES AND REPORTS

As of 2015, 2,349 paint samples from 40 countries have been collected and analyzed for lead. In the vast majority of cases, the paints in all regions had high lead content and would not be allowed for sale in the industrialized countries.

Asia

Number of paint samples analyzed: 1,536

Number of countries where paint studies have been conducted: 12

Country	Brush with Toxics ¹	Lead in New Decorative Paints ²	Double Standard: Investigating Lead (Pb) Content in Leading Enamel Paint Brands in South Asia ³	Asia Regional Paint Report ⁴	Other Published Studies
Bangladesh			6	90	
India	31	29	6	250	26 Examination of lead concentrations in new decorative enamel paints in four countries with different histories of activity in lead paint regulation ⁵ 72 Lead levels in new enamel household paints from Asia, Africa and South America ⁶ 24 Lead Poisoning Prevention & Treatment: Implementing a National Program in Developing Countries ⁷ 25 Lead in Paints ⁸
Indonesia				78	11 Lead levels in new enamel household paints from Asia, Africa and South America ⁹

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Indonesia				78	11 Lead levels in new enamel household paints from Asia, Africa and South America ⁹
Nepal			6	49	24 Study of Lead Paint in Nepal ¹⁰ 75 Lead in new paints in Nepal ¹¹
Philippines		25		122	
Sri Lanka		33		94	
Thailand		27		120	31 Reported in: Study on the possible effects on human health and the environment in Asia and the Pacific of the trade of products containing lead, cadmium, and mercury, Annex II ¹²
China					64 Lead levels in new enamel household paints from Asia, Africa, and South America ¹³ 58 Lead in housing paints: an existing source still not taken seriously for children lead poisoning in China ¹⁴ 15 Lead Levels in New Residential Enamel Paints in Taipei, Taiwan and Comparison with Those in Mainland China ¹⁵
Lebanon					15 Report on Total Lead Concentration (ppm) of New Enamel Decorative Enamel Paints in Lebanon, Paraguay and Russia ¹⁶
Jordan					17 Phasing out lead in paint through advocacy and awareness raising ¹⁷
Malaysia					72 Lead levels in new enamel household paints from Asia, Africa and South America ¹⁸
Singapore					41 Lead levels in new enamel household paints from Asia, Africa and South America ¹⁹
Total number of paint samples	31	114	18	803	570

Asia

- 1 Toxics Link, *Brush With Toxics*; 2007: http://toxicslink.org/docs/lead_in_paints/Lead_in_Paints_Brush_with_toxics.pdf
- 2 Toxics Link and IPEN; *Lead in New Decorative Paints*; 2009: http://ipen.org/sites/default/files/documents/global_paintstudy-en.pdf
- 3 Toxics Link; *Double Standard: Investigating Lead Content In Leading Enamel Paint Brands In South Asia*, 2011: http://toxicslink.org/docs/Double_Standard_Lead_Paint_29_June_2011.p
- 4 The results of national studies carried out in 2012 and 2013 are summarized in: IPEN; *Asia Regional Paint Report*, Dr. Sara Brosché et al. 2014: <http://ipen.org/sites/default/files/documents/Asia%20Regional%20Paint%20Report%20final.pdf>
- 5 C. Scott Clark, et al, *Examination of lead concentrations in new decorative enamel paints in four countries with different histories of activity in lead paint regulation*, Environmental Research; Accepted 7 March 2014
- 6 Clark, C.S., Rampal, K.G., Thuppil, V., Roda, S.M., Succop, P., Menrath, W., Chen, C.K., Adebamowo, E.O., Agbede, O.A., Sridhar, M.K.C., Adebamowo, C.A., Zakaria, Y., El-Safty, A., Shinde, R. M., and Yu, J. (2009) *Lead levels in new enamel household paints from Asia, Africa and South America*, Environmental Research 109:930-936. {Includes data for China, India, Malaysia and Singapore presented in Clark et al (2006) Environmental Research 102:9-12.; and data for Nigeria presented in Adebamowo, Clark et al (2007) presented in Science of the Total Environment 388:116-120.}
- 7 Van Alphen, M. (1999) *Lead in Paints and Water in India*, pgs. 265-272, in *Lead Poisoning Prevention & Treatment: Implementing a National Program in Developing Countries*, A.M. George (Ed), The George Foundation, Bangalore, India.
- 8 Johnson S, Salkia N, Sahu R (2009) *Lead in Paints*, Centre for Science and Environment, PML/PR-34/2009, New Delhi India.
- 9 Clark, C.S. et. al., Environmental Research, loc. cit.
- 10 Ram Charittra Sah and Kameshwar Yadav, *Study of Lead Paints in Nepal*, by; 2010
- 11 Perry Gottesfeld et al, *Lead in new paints in Nepal*, by; EnvironmentalResearch132 (2014); 70-75
- 12 UNEP, *Study on the possible effects on human health and the environment in Asia and the Pacific of the trade of products containing lead, cadmium and mercury*, Annex II. 2010; http://www.unep.org/chemicalsandwaste/Portals/9/Lead_Cadmium/docs/Trade_Reports/AP/UNEPLeadPb-CaicedoCompilation110601.pdf
- 13 Clark, C.S. et. al., Environmental Research, loc. cit.
- 14 Lin G Z, Peng R F, Chen Q, Wu Z G, Du L (2008) *Lead in housing paints: an existing source still not taken seriously for children lead poisoning in China*, Environmental Research 109, 1-5.
- 15 Ewers L, Clark C S, Peng H., Roda Sandy M, Menrath B, Lind C, Succop P (2011). *Lead Levels in New Residential Enamel Paints in Taipei, Taiwan and Comparison with Those in Mainland China*, Environmental Research 111:6, 757-760.
- 16 IPEN and University of Cincinnati, *Report on Total Lead Concentration (ppm) of New Enamel Decorative Enamel Paints in Lebanon, Paraguay and Russia*; (2012)
- 17 IPEN and Land and Human to Advocate Progress (LHAP), *Phasing out lead in paint through advocacy and awareness raising*; 2010; <http://ipen.org/sites/default/files/documents/LHAP%20final%20ISIP%20Lead%20in%20Paint%20report.pdf>
- 18 Clark, C.S. et. al., Environmental Research, loc. cit.
- 19 Clark, C.S. et. al., Environmental Research, loc. cit.

Africa

Total number of paint samples analyzed: 450

Number of countries where paint studies have been conducted: 14

Country	Lead in New Decorative Paints ²⁰	Lead in Enamel Decorative Paints ²¹	Other Published Studies
Tanzania	26		
South Africa	29		
Nigeria	30		
Senegal	30		
Kenya			31 Lead in Kenyan Household Paint ²²
Cameroon			61 Lead Concentrations and Labeling of New Paint in Cameroon ²³
Uganda			50 Collection of Lead Based Paint Samples in Uganda ²⁴
Cote d'Ivoire		30	
Ethiopia		30	
Ghana		30	
Tunisia		30	
Egypt			20 Lead levels in new enamel household paints from Asia, Africa and South America ²⁵
Nigeria			25 Lead levels in new enamel household paints from Asia, Africa and South America ²⁶
Seychelles			28 Lead levels in new enamel household paints from Asia, Africa and South America ²⁷
Total number of paint samples	115	120	215

Africa

- 20 Toxics Link and IPEN, *Lead in New Decorative Paints*, 2009: http://ipen.org/sites/default/files/documents/global_paintstudy-en.pdf
- 21 UNEP and IPEN, *Lead in Enamel Decorative Paints; National Paint Testing Results: A Nine Country Study*, 2013: http://www.unep.org/chemicalsandwaste/Portals/9/Mercury/Documents/publications/Lead_in_Enamel_decorative_paints.pdf
- 22 Nganga C, Clark S, Weinberg J (2012), *Lead in Kenyan Household Paint*, September, 2012, iLima, Nairobi, Kenya, University of Cincinnati <http://ipen.org/sites/default/files/documents/lead%20in%20kenyan%20household%20paint%20sept.%202012.pdf>
- 23 P. Gottesfeld , G. Kuepouo , S. Tetsopgang & K. Durand (2013): *Lead Concentrations and Labeling of New Paint in Cameroon*, Journal of Occupational and Environmental Hygiene, 10:5, 243-249
- 24 UNETMAC and IPEN *Collection of Lead Based Paint Samples in Uganda*, 2010 <http://ipen.org/documents/isip-report-collection-lead-based-paint-samples-uganda>
- 25 Clark, C.S., Rampal, K.G., Thuppil, V., Roda, S.M., Succop, P., Menrath, W., Chen, C.K., Adebamowo, E.O., Agbede, O.A., Sridhar, M.K.C., Adebamowo, C.A., Zakaria, Y., El-Safty, A., Shinde, R. M., and Yu, J. (2009) *Lead levels in new enamel household paints from Asia, Africa and South America*, Environmental Research 109:930-936. (Includes data for China, India, Malaysia and Singapore presented in Clark et al (2006) Environmental Research 102:9-12.; and data for Nigeria presented in Adebamowo, Clark et al (2007) presented in Science of the Total Environment 388:116-120.)
- 26 Clark, C.S. et. al., Environmental Research, loc. cit.
- 27 Clark, C.S. et. al., Environmental Research, loc. cit.

South America

- 28 Toxics Link and IPEN; *Lead in New Decorative Paints*; 2009: http://ipen.org/sites/default/files/documents/global_paintstudy-en.pdf
- 29 UNEP and IPEN; *Lead in Enamel Decorative Paints*; National Paint Testing Results: A Nine Country Study, 2013: http://www.unep.org/chemicalsandwaste/Portals/9/Mercury/Documents/publications/Lead_in_Enamel_decorative_paints.pdf
- 30 C. Scott Clark, et al, *Examination of lead concentrations in new decorative enamel paints in four countries with different histories of activity in lead paint regulation*, Environmental Research; Accepted 7 March 2014
- 31 IPEN and University of Cincinnati, *Report on Total Lead Concentration (ppm) of New Enamel Decorative Enamel Paints in Lebanon, Paraguay and Russia* (2012)
- 32 Clark, C.S., Rampal, K.G., Thuppil, V., Roda, S.M., Succop, P., Menrath, W., Chen, C.K., Adebamowo, E.O., Agbede, O.A., Sridhar, M.K.C., Adebamowo, C.A., Zakaria, Y., El-Safty, A., Shinde, R. M., and Yu, J. (2009) *Lead levels in new enamel household paints from Asia, Africa and South America*, Environmental Research 109:930-936. (Includes data for China, India, Malaysia and Singapore presented in Clark et al (2006) Environmental Research 102:9-12.; and data for Nigeria presented in Adebamowo, Clark et al (2007) presented in Science of the Total Environment 388:116-120.)
- 33 Clark, C.S. et. al., Environmental Research, loc. cit.

South America

Total number of paint samples analyzed: 206

Number of countries where paint studies have been conducted: 8

Country	Lead in New Decorative Paints ²⁸	Lead in Enamel Decorative Paints ²⁹	Other Published Studies
Mexico	30		
Brazil	31		20 Examination of lead concentrations in new decorative enamel paints in four countries with different histories of activity in lead paint regulation ³⁰
Paraguay			15 Report on Total Lead Concentration (ppm) of New Enamel Decorative Enamel Paints in Lebanon, Paraguay and Russia ³¹
Argentina		30	
Chile		30	
Uruguay		30	
Ecuador			10 Lead levels in new enamel household paints from Asia, Africa, and South America ³²
Peru			10 Lead levels in new enamel household paints from Asia, Africa, and South America ³³
Total number of paint samples	61	90	55

EECCA Region

Total number of paint samples analyzed: 157

Number of countries where paint studies have been conducted: 6

Country	Lead in New Decorative Paints ³⁴	Lead in Enamel Decorative Paints ³⁵	Other Published Studies
Belarus	30		
Russia			15 Report on Total Lead Concentration (ppm) of New Enamel Decorative Enamel Paints in Lebanon, Paraguay and Russia ³⁶
Azerbaijan		30	
Kazakhstan			26 Examination of lead concentrations in new decorative enamel paints in four countries with different histories of activity in lead paint regulation ³⁷
Kyrgyzstan		30	
Armenia			26 Examination of lead concentrations in new decorative enamel paints in four countries with different histories of activity in lead paint regulation ³⁸
Total number of paint samples	30	60	67

EECCA Region

³⁴ Toxics Link and IPEN, *Lead in New Decorative Paints*, 2009: http://ipen.org/sites/default/files/documents/global_paintstudy-en.pdf

³⁵ UNEP and IPEN, *Lead in Enamel Decorative Paints*; National Paint Testing Results: A Nine Country Study, 2013: http://www.unep.org/chemicalsandwaste/Portals/9/Mercury/Documents/publications/Lead_in_Enamel_decorative_paints.pdf

³⁶ IPEN and University of Cincinnati, *Report on Total Lead Concentration (ppm) of New Enamel Decorative Enamel Paints in Lebanon, Paraguay and Russia*, (2012)

³⁷ C. Scott Clark, et al, *Examination of lead concentrations in new decorative enamel paints in four countries with different histories of activity in lead paint regulation*, Environmental Research; Accepted 7 March 2014

³⁸ C. Scott Clark, et al, loc. cit.

IPEN (www.ipen.org) is an international NGO network with 700 participating organizations working in 116 countries to promote safe chemical policies and practices that protect human health and the environment.



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