Report on MPMA’s Lead-Free Initiatives
Introduction to MPMA

• Incorporated on 31st October 1966

• Non-profit organization to represent the broad interests of the paint manufacturing industry in Malaysia

• Objectives:
  • To promote and protect the interests of the manufacturers of paints* in Malaysia.
    *include all paints, varnishes, enamels, lacquers, distempers and their allied products
  • To promote and support legislation for the improvement of the standing of manufacturers of paints in Malaysia
  • To promote the collection and circulation of statistics and other information relating to the paints industry and the publication of the other literary undertakings as may seem appropriate.
  • To subscribe to or become a member of/or cooperate with any public body or institution or association where it is considered such subscription membership or cooperation is conducive to the objects for which the Association is established for ie MPMA is a subsector under the Chemical Industries Council of Malaysia (CICM) and International Paint and Printing Ink Council (IPPIC)
Our members

21 Ordinary Members

21 Ordinary Members

32 Associate Members

- ARKEMA
- BÜHLER
- IEC
- MegaChem
- IMCD
- IMERYS
- Chromaflo Technologies
- JENSEN & JENSEN INGREDIENTS
- SUKA
- allnex
- THOR
- HUNTSMAN
- Lonza
- AkzoNobel
- BASF
- Lonza
- DSM
Key Initiatives by MPMA – Moving the industry towards eliminating lead from paint by 2020

• In Malaysia:
  • Ministry of Domestic Trade and Consumer Affairs (KPDNHEP) regulates mandatory safety standards for toys intended for children below 14 years old.
  • MS ISO 8124-3 Safety of Toys Part 3 Migration of Certain Elements the maximum acceptable migration of lead in paint shall not be more than 90 parts per million (ppm).
  • Department of Safety and Health (DOSH) - Factories and Machinery (Lead) Regulations 1984 - Related to workplace

### Data on Lead in House hold Paint in Malaysia

Over the years, CAP has conducted on lead for Solvent Based Enamel Paints containing more than 600 ppm (parts per million)

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>% of samples</td>
<td>78% &gt; 600ppm Highest amount 11,700 ppm</td>
<td>50% &gt; 600ppm 31% &gt; 10,000ppm</td>
<td>41% &gt; 600 ppm</td>
</tr>
</tbody>
</table>

Study Published in March 2016

<table>
<thead>
<tr>
<th>Sample size</th>
<th>39 cans from 18 Brand Types manufactured by 17 Manufacturers</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 600 ppm</td>
<td>16 samples contain lead &gt; 600 ppm - 41%</td>
</tr>
<tr>
<td>Dangerously High Levels</td>
<td>12 samples contain lead &gt; 10,000 ppm - 31%</td>
</tr>
<tr>
<td>Highest Level</td>
<td>150,000 ppm</td>
</tr>
<tr>
<td>Lowest Level</td>
<td>&lt; 60 ppm</td>
</tr>
<tr>
<td>Brands results</td>
<td>11 out of 18 brands tested (61% of brands) had at least 1 sample &gt; 10,000 ppm</td>
</tr>
</tbody>
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Malaysia Importation on Lead and Chrome

<table>
<thead>
<tr>
<th>Year</th>
<th>Metric Tonne (MT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>365</td>
</tr>
<tr>
<td>2011</td>
<td>270</td>
</tr>
<tr>
<td>2012</td>
<td>210</td>
</tr>
<tr>
<td>2013</td>
<td>180</td>
</tr>
<tr>
<td>2014</td>
<td>140</td>
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<tr>
<td>2015</td>
<td>80</td>
</tr>
<tr>
<td>2016</td>
<td>58</td>
</tr>
<tr>
<td>2017</td>
<td>43</td>
</tr>
<tr>
<td>2018</td>
<td>31</td>
</tr>
</tbody>
</table>

Source: Raw material suppliers
MPMA’s Resolution on LEAD

MPMA has jointly agreed to commit voluntarily to have all the members to remove lead in DECORATIVE paints by year 2018 while enhancing it’s effort in the replacement of lead in other types of paints with the intention of finally eliminating the use of lead in paints by 2020 to meet the International efforts.

1. For general usages such as interior / exterior decorative paints, especially in the area of public sector, the use of leaded paints shall be eliminated.

2. MPMA members will be committed and shall voluntary take the necessary efforts in terms of R&D, manufacturing and distribution and to complete its efforts in eliminating lead by 2020 in all other sectors.

3. For non-member companies, MPMA shall inform them wherever possible, and make utmost efforts to encourage and enhance their understanding for the elimination of lead in paints by 2020

4. In special usage, where the usage of lead is inevitable, the application of these paints must be strictly controlled and under supervision.
Milestones - Initiatives towards eliminate Lead Paints

<Stage #1>

- **April 2017**
  - Started with:
    - MPMA Lead Elimination Resolution (31st March)
    - Tabled out at AGM
    - Met up with Government agencies

<Stage #2>

- **2018** – Eliminate Lead in Decorative Paints

- **Nov 2017**

<Stage #3>

- **2020**
  - Eliminate Lead paints in Malaysia

- **Sept 2017**
  - Roundtable discussion
    - Members
    - Non-members
Roundtable discussion on Sept 2017

• A round-table discussion was set up to invite both members and also non-paint members of MPMA with the following objectives:
  • To brief everyone on MPMA’s resolution towards eliminating lead from paint by 2020
  • To provide brief outline of the background of this initiative
  • To discuss on any issues or concerns on achieving the key milestone and timeline of the initiative
The Malaysian Context on Nov 2017

Keynote Address by YB Dato' Henry Sum Agong
Deputy Minister, Ministry of Domestic Trade, Co-operatives and Consumerism

- The main objective of the forum is to raise awareness and to educate players of the paint industry to move towards this goal.

- To provide platform whereby the paint industry players and government bodies are able to share their respective knowledge and experiences on the use of lead in paints and ultimately working together towards the elimination of lead in paints.

- The discussion will be centered on the function of lead in paints, options to eliminate lead in paints and working towards the ultimate goal of Lead Free Paints in Malaysia by 2020.
Forum on Towards Lead Free Paint – The Malaysian Context on Nov 2017

1. Akzo Nobel Paints (Malaysia) Sdn Bhd
2. Becker Industrial Coatings (M) Sdn Bhd
3. Boustead Sissons Paints Sdn Bhd
4. Chugoku Paints (M) Sdn Bhd
5. Dolphin Paint (MFG) Sdn Bhd
6. Federal Paints Manufacturing (M) Sdn Bhd
7. Jotun Paints (Malaysia) Sdn Bhd
8. Kansai Paint Asia Pacific Sdn Bhd
9. Kansai PLC Sdn Bhd
10. KCC Paints Sdn Bhd
11. Kossan Paint (M) Sdn Bhd
12. MCI Paint Sdn Bhd
13. Nippon Paint (M) Sdn Bhd
14. Sancora Paints Industries
15. Seamaster Paint (Malaysia) Sdn Bhd
16. Sime Kansai Paint Sdn Bhd
17. Suzukacoat (M) Sdn Bhd
Forum on Towards Lead Free Paint – The Malaysian Context on Nov 2017

Impact of Lead on Health & Wellness at the Workplace
Lead-based Paint: Where and Why Lead-based Ingredients Are Used
Towards Elimination of Lead: A Global Perspective
Panel Discussion #1 - A Mindset Change: Moving Towards Lead Free Paint

Towards Lead-Free Paint: The Philippines Experience by Mr Vergel Dyoco (PAPM)
Panel Discussion #2 - Malaysia’s Roadmap Towards Lead-Free Paint: Should It Be Regulated?

Lead & Chromate Anti Corrosion Pigment Replacement
Replacing Lead Driers is Easier Than You Think
Forum on Towards Lead Free Paint – The Malaysian Context on Nov 2017

- Infographic about Lead and shared with the attendees
MPMA which represents the collective voices of the paint manufacturing industry in Malaysia spearheaded the signing of a commitment pledge by 17 industry players to remove the use of lead-based ingredients in the manufacturing of paints by 2020.

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**Total Media:**
- 10 Pax

**Total Publications:**
- 7 Titles
MPMA’s 2018/19 Action

• We have a dialogue session with the following government department in year 2018 and 2019

Ministry of Domestic Trade and Consumer Affairs (KPDNHEP)

Department of Safety and Health (DOSH)
~ Factories and Machinery (Lead) Regulations 1984 - Related to workplace
Thank you!