Green Chemistry:
Through the Lens of Public Health

A BROWN-BAG SYMPOSIUM

OCTOBER 18, 2010
10 AM - 3 PM

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Division of Food, Drug, and Radiation
CDPH 10 Essential Services and Green Chemistry

The mission of CDPH is dedicated to optimizing the health and well-being of the people of California.

1. Monitor
2. Diagnose and Investigate
3. Inform, Educate, Empower
4. Develop Policies that Support
5. Enforce
6. Link People to Services
7. Assure Competent Public Health System
8. Evaluate
9. Research
CDPH - Food and Drug Branch

- Food Safety
- Drug Safety
- Medical Device Safety
- Consumer Product Safety
  - Physical, biologic, and chemical hazards
# Existing Health and Safety Code
Microbial, Physical, and Chemical Hazards
Governed by CDPH

<table>
<thead>
<tr>
<th>Consumer Product</th>
<th>Contaminant/Issue</th>
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<tbody>
<tr>
<td>Toys</td>
<td>Lead and Heavy Metals</td>
</tr>
<tr>
<td>Child Care Articles</td>
<td>Phthalates</td>
</tr>
<tr>
<td>Art/Craft Materials</td>
<td>Hazardous Substances</td>
</tr>
<tr>
<td>Tableware</td>
<td>Lead and Cadmium</td>
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<tr>
<td>Cribs</td>
<td>Design and Safety</td>
</tr>
<tr>
<td>Bunk Beds</td>
<td>Design and Safety</td>
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CDPH
A collaborative blend of toxicologic and epidemiologic assessment and effective response
CDPH - Authority to Act

Under authority of the California Health and Safety Codes: Division 104, Part 5, Chapter 8, Article 3, Section 111860 or Part 3, Chapter 9, Article 3, Section 108905 or Part 3, Chapter 5, Article 2, Section 108565 or Part 3, Chapter 4, Article 5, Section 108375.

WARNING:
IT IS UNLAWFUL TO REMOVE OR DISPOSE OF THIS MATERIAL WITHOUT WRITTEN AUTHORIZATION FROM THE:

California Department of Public Health
Food and Drug Branch
1500 Capitol Avenue, MS-7602
Sacramento, CA 95814
(916) 650-6500

Example: 234 Food Embargo/Quarantines ($8.6 million) in FY 2009-10.
CDPH-Food and Drug staff are Commissioned Officers of U.S. FDA and U.S. CPSC.
In 2003, $406.5 billion worth of U.S. trade went through California’s sea, air, and land ports.

$120 billion of cargo value in Long Beach Port in 2009.

Source: Public Policy Institute of California
Collaborative work with between CDPH and CPSC using XRF at the Port of Long Beach, CA
CDPH - The Present

✓ CDPH consumer product safety program is a complaint-based reactive program.

✓ Close coordination with federal programs (e.g., contract with U.S. CPSC to conduct recall effectiveness checks).
Green Chemistry Models for Regulatory Quality Systems Control

Increasing regulatory requirements of quality systems control

Drugs
- GMPs
- Post Market Surveillance
- Clinical Trials
- Recalls
- US Pharmacopeia
- New Formulary
- Clinical Trials
- Post Market Surveillance
- Precision
- Testing
- Recalls

Medical Device
- GMPs
- Post Market Surveillance
- Clinical Trials
- Recalls

Foods
- Hazard Assessment
- Critical Control Points
- Recalls

Cosmetics
- Voluntary Registration
- Recalls

Consumer Products
- Recalls
  (72 with CPSC in 2009-2010)
- CPSIA
- ASTM Standards

Export certificates given to CA firms for export ( CPSIA 2009-2010)
CDPH - The Future-Challenges

✓ Become Green Chemistry proactive and aware.

✓ Work towards engineering quality concerns at the manufacturing level.

✓ Integrate program to leverage resources.

✓ Better monitor imported consumer products at ports of entry.

✓ Improve recall system.

✓ Improve consumer information and partnerships.