



## A Canadian Perspective

- Environmental Regulatory Developments
- International Standardization

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# Environmental Legislation in Canada

- Waste Management regulations
  - Under provincial jurisdiction
  - E-waste programs in place or in development in most Canadian provinces
  - Some provinces have industry led stewardship programs
- Hazardous Substance Regulations
  - Federal jurisdiction for Canada wide regulations
  - Implemented in Canadian Environmental Protection Act (CEPA)
  - Supplementary provincial regulations are possible

# Overview of Canadian Activities for Hazardous Substances

- Canadian Priority has been Chemical Management Plan
  - Review of ~200 priority chemicals
  - Mandatory industry reporting
- Minimal discussion of implementing RoHS-like regulations in Canada
- Targeted assessments and restrictions
  - PBDEs, Mercury, PFOS, BPA, Phthalates

# Canadian Chemical Management Plan

- Canadian government systematically sorted through ~23,000 existing chemical substances and categorized
  - Risks to human health and/or the environment.
  - Focus on substances with
    - Potential to be inherent toxicity, and
    - Persistent or Bioaccumulative, and
    - Greatest potential for exposure to Canadians.

# Canadian Chemical Management Plan (Priority Substances)

- 195 priority substances were identified.
  - Grouped into batches of 15-30 and published every three months.
  - First batch was published on February 2007.
  - Batch 8 was opened in January 2009
  - Industry required to provide information about usage, application, and characteristics in profile and mandatory survey during six month window.
  - Government publication of Screening Assessment Report and proposed risk management approach
- To date, 46 Challenge substances have been identified with potential uses in EEE.

# Chemical Substances of Concern in the EEE Sector

- Potential substances that could impact the EEE industry have been identified
  - PBDEs & PFOS – High Priority
  - BPA (Batch 2)
  - Hg
- Other CMP substances are currently under screening assessment review including HBCD and TBBPA.

# PBDE Risk Management Strategy

- Existing Restrictions July 9, 2008.
  - Prohibit the manufacture of PBDEs (including decaPBDE in Canada)
  - Prohibit the manufacture and import of mixtures, polymers and resins containing tetra-, penta- and hexaBDE
- Future Restrictions
  - Development of a regulation to control PBDEs in domestic and imported manufactured products.
  - Detailed review and report on decaBDE.
  - Performance Agreement (PA) to minimize releases from the use of DecaBDE in manufacturing operations.
  - Development of a management strategy for PBDE containing products at end-of-life.

# PFOS

- May 2008 - Regulation to ban Perfluorooctane Sulfonate and its Salts (PFOS)
  - Added to CEPA Virtual Elimination List
- Restricts the manufacture, use, sale, offer for sale or import
  - Applies to substances and products containing any such substance unless the substance is incidentally present.
- Exemptions for certain photolithographic and photographic applications

# BPA & DEHP in Medical Devices

- Reporting of Bisphenol-A (BPA) and di(2-ethylhexyl)phthalate (DEHP) in Medical Devices mandatory in Canada
  - Effective June 2008
  - Applicable to class II, III, and IV medical devices containing BPA or DEHP
- DEHP will be reportable when present in concentrations of 0.1% by mass or greater.
- BPA will be reportable if the product is manufactured from raw materials containing or derived from BPA.

# Mercury

- Regulations in development
  - Prohibit the import, manufacture and sale of all mercury-containing products, including lighting applications
    - Lamps and amalgam exempt from prohibition
    - Strict limits for certain lamps types
    - Exempted products must be reported and labelled
  - Other exemptions and granting of permits will be considered based on criticality of application, alternatives, potential risk and end-of-life management practices.
- Products with permits will be required to establish:
  - Labeling and Reporting
  - End-of-life management practices
- The targeted date for coming into force is January 2012

# Environment Standardization

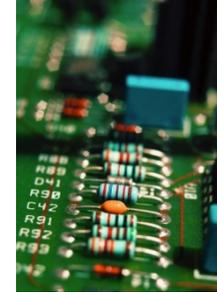


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# Thank You!!

## Any Questions?



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