




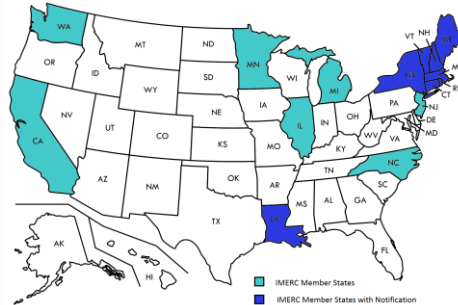
Interstate Mercury Education & Reduction Clearinghouse (IMERC)

- Launched in 2001 by the Northeast states
- Provide ongoing technical and programmatic assistance to states that have enacted mercury education and reduction legislation
- Act as single point of contact for industry and the public for information on mercury-added products and member states' mercury education and reduction programs



Interstate Mercury Education & Reduction Clearinghouse (IMERC)

- States passed enabling legislation over the next six years, including labeling, collection, notification, and phase-out/bans
- In 2013, there were 15 IMERC states; 8 required notification



Mercury-Added Product Notification

- Applies to companies that manufacture, sell, distribute, or import a mercury-added product into the states of CT, LA, ME, MA, NH, NY, RI, VT
- Currently >660 companies in IMERC's Database
 - ~235 have confirmed phase out
 - ~35 no longer sell in IMERC Notification States
 - ~50 that never filed and IMERC suspects is noncompliant
- Report includes information on:
 - Products that contain intentionally-added mercury
 - Amount of mercury in the specific product
 - Total mercury used in in product lines sold in the US every three years starting in calendar year 2001



Mercury-Added Product Notification

- Companies report through IMERC's online e-filing system: <https://imerc.newmoa.org/Public>
- Types of forms:
 - Single Manufacturer
 - Lamp Manufacturer
 - Automobile Manufacturer
 - Multiple Manufacturer (Trade Associations)
- Classification of filers:
 - Manufacturer
 - Distributor / Wholesaler
 - Importer
- Analysis focuses on data from OEMs



Mercury-Added Product Notification 2013 Data Summary – Updated August 2016

Product/Component	2001	2004	2007	2010	2013	Percentage Change 2001-2013
Batteries	2.79	2.47	2.07	7.12	0.08	- 97%
Dental Amalgam	30.77	26.61	19.96	17.08	15.97	- 48%
Formulated Products	1.20	1.04	1.45	1.37	0.52	- 57%
Lamps	10.71	10.07	10.65	8.40	5.22	- 51%
Measuring Devices	5.12	3.05	1.13	0.77	0.63	- 88%
Miscellaneous Products	4.25	2.40	2.78	2.38	2.16	-9%
Switches & Relays	60.07	51.44	29.93	19.43	N/A	- 68% (2010)
Thermostats	14.63	14.45	3.74	0.02	0.05	- 99%

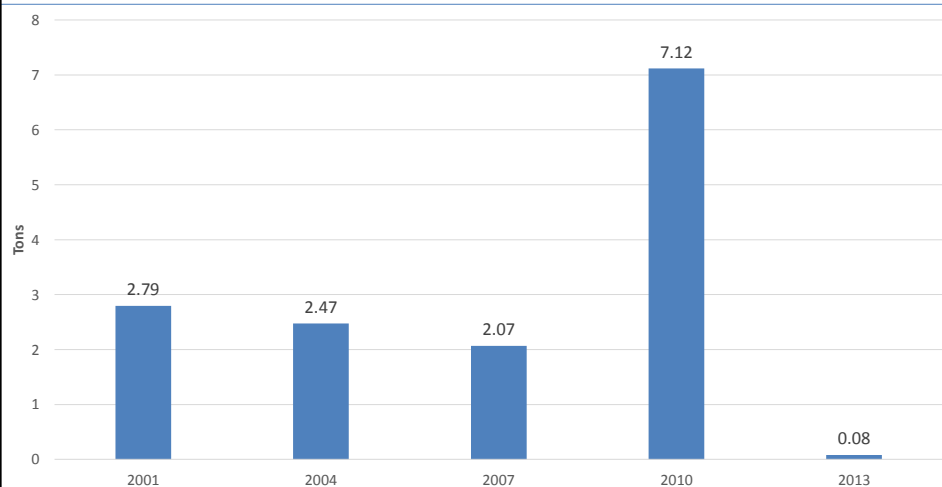
Note: Data presented is in U.S. short tons (1 ton = 2,000 pounds)

Mercury Use in Batteries

- 53 manufacturers have notified for one or more reporting years since 2001; 3 new for 2013
- 37 have confirmed mercury phase-out
- 1 company out of compliance for 2013 notification
– approx. 94% reporting compliance
- 16 companies included in 2013 report
- 4 states ban mercury batteries – CT, LA, ME, RI



Mercury Use in Batteries



Biggest reduction occurred between 2010 – 2013 = 98.9%

Dental Amalgam

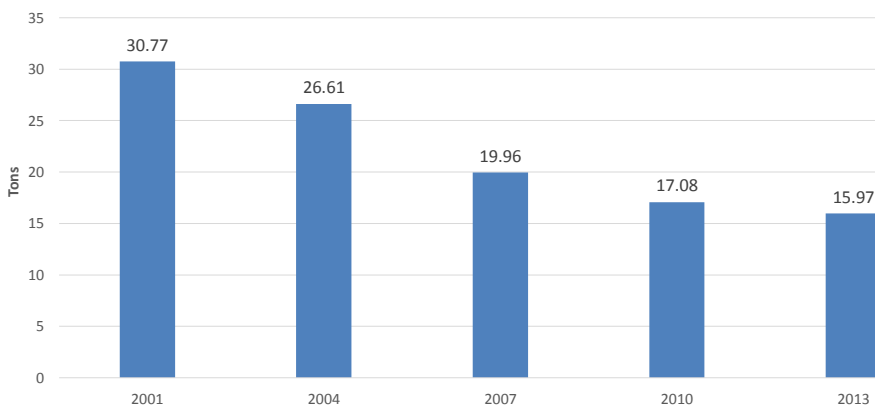
- 5 manufacturers have consistently notified for all reporting years since 2001
 - 100% reporting compliance
- 2 states restrict the sale of dental amalgam based on mercury content – LA and RI (>10 mg mercury)



Mercury content of each capsule varies from 100-1000 milligrams



Dental Amalgam



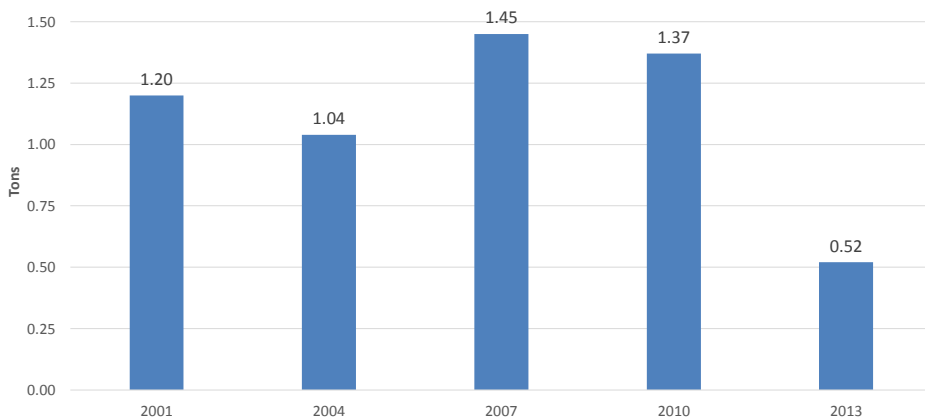
Steady decline over the past 12 years – overall reduction 48%

Formulated Products

- 39 manufacturers have notified for one or more reporting years since 2001; (7 new for 2013)
- 13 have confirmed mercury phase-out
- 2 companies out of compliance for 2013 notification
 - approx. 92% reporting compliance
- 26 companies included in 2013 report
- 4 states restrict the sale of formulated products:
 - CT – products with >50 ppm mercury
 - LA and RI – products with >10 ppm mercury
 - MN – pharmaceutical products and cosmetics



Formulated Products



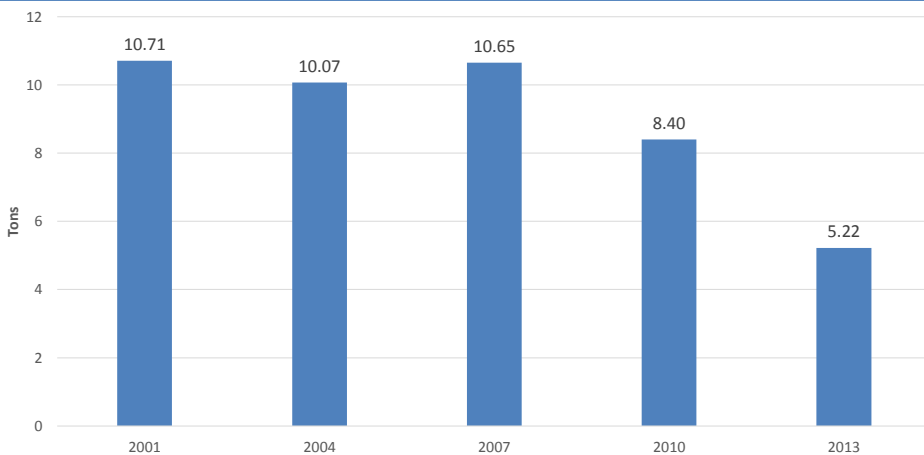
Historically, this has been the smallest product category.
In recent years, many smaller companies have been purchased by larger ones.

Mercury Use in Lighting

- 200+ manufacturers have notified for one or more reporting years since 2001; (55 new for 2013)
- 22 have confirmed mercury phase-out
- 11 companies out of compliance for 2013 notification
 - approx. 94% reporting compliance
- 189 companies included in 2013 report
- 5 states restrict the sale of mercury-added lamps:
 - CT – products with >100 mg mercury
 - LA and RI – products with >10 mg mercury
 - ME – general purpose lamps w/ high mercury content and no collection plans
 - VT – neon lamps



Mercury Use in Lighting



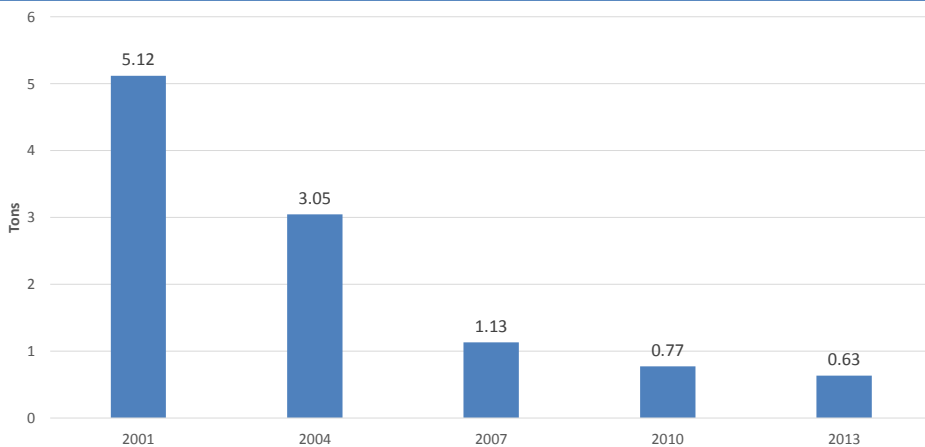
Data consists mainly of fluorescent- and HID-type lamps; neon lamps underreported.
Biggest reduction occurred between 2010 – 2013 = 38%

Mercury Use in Measuring Devices

- 24 manufacturers have notified for one or more reporting years since 2001
- 15 have confirmed mercury phase-out
- 3 companies out of compliance for 2013 notification
 - approx. 67% reporting compliance
- 9 companies included in 2013 report
- 12 states ban the sale of certain measuring devices. MA allows sale of mercury lab thermometers.



Mercury Use in Measuring Devices



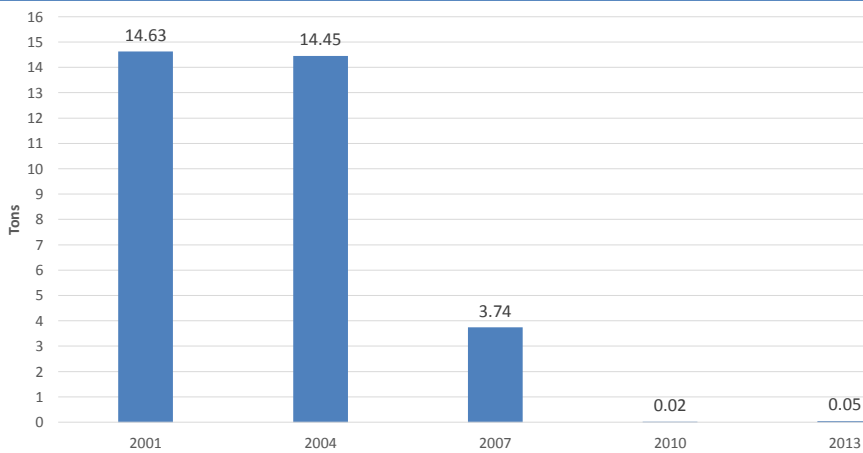
Thermometers make up majority of this data set. Other types of measuring devices in this category include: sphygmomanometers (2 companies); and “other misc. equipment” (1 company). No company has notified for manometers or barometers in 2013.

Mercury Use in Thermostats

- 8 manufacturers have consistently notified for all reporting years since 2001
 - 100% reporting compliance
- 8 have confirmed mercury phase-out
- 1 company in 2013 report (phased out in 2015)
- 11 states ban the sale of mercury thermostats – CT, LA, ME, MA, MI, MN, NH, NY, RI, VT, WA



Mercury Use in Thermostats



Slight increase from 2010 – 2013 attributable to one company reporting; since then, all companies have confirmed phase out.

Miscellaneous Mercury Products

- 19 manufacturers have notified for one or more reporting years since 2001; (8 new for 2013)
- 3 have confirmed mercury phase-out
- 3 companies out of compliance for 2013 notification
 - approx. 81% reporting compliance
- 16 companies included in 2013 report
- At least 3 states restrict the sale of these products.
 - CT – products with >100 mg mercury
 - LA and RI – products with >10 mg mercury
 - Other bans may apply depending on the state and product.

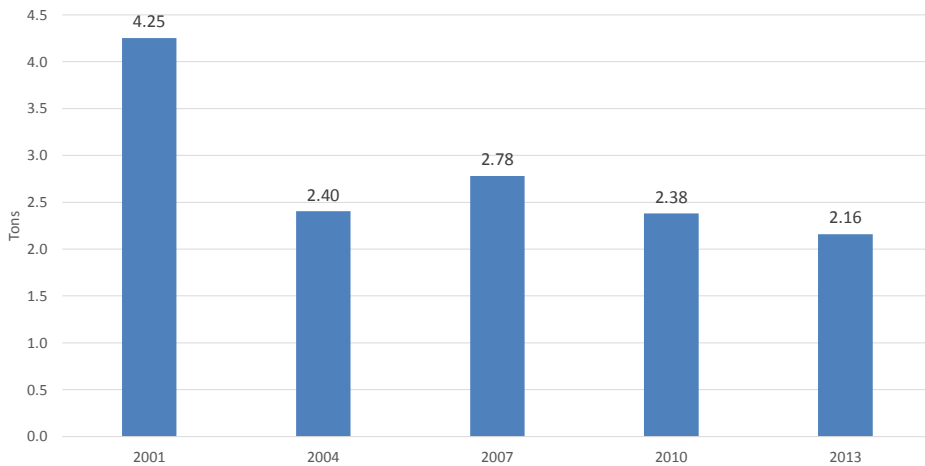


Miscellaneous Mercury Products

- Examples of “miscellaneous” mercury-added products include:
 - Pressure transducers
 - Film
 - Electrodes / electrical connectors
 - Recoil reduction suppressors in firearms
 - Mercury shock absorber for tennis elbow



Miscellaneous Products



Difficult to show accurate trend because of the variety of products included in this category.

Data Caveats & Limitations

- May not represent the entire universe of the mercury-added products sold in the U.S. IMERC continuously receives new information from mercury-added product manufacturers.
- May overestimate the total amount of mercury sold in a product category. IMERC uses a conservative approach and assumes that the mercury total for non-reporters for 2013 is the same as its most recently reported year.



Data Caveats & Limitations

- Applies only to manufacturers and distributors of mercury-added products that are allowed to sell into one or more of the IMERC Notification States.
- Does not include products sold prior to January 1, 2001 or exported outside of the U.S., or products sold in-between triennial reporting years.
- Includes only mercury that is used in the product, and does not include mercury emitted during mining, manufacturing, or other points in the products' life cycle.



Additional Information

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Mercury-added Products Database

www.newmoa.org/prevention/mercury/imerc/Notification

Mercury-added Product Fact Sheets

www.newmoa.org/prevention/mercury/imerc/FactSheets

