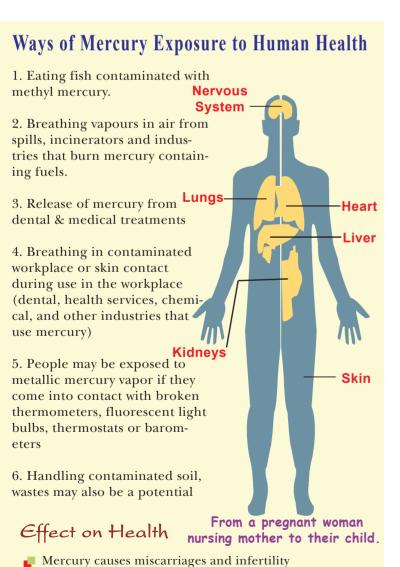


Mercury containing products



Abnormalities in physiological development

Memory loss & neurological problems

Corrodes skin & mucous membrane

Damage to the brain. kidneys, and immune system

Impairing hearing, speech and vision

Birth defects

of children

Respiratory Problems

Oral cavity problems

Gastrointestinal problems

■ Deteriorates nervous system



Bangladesh. Mostly imported from other countries. According to NBR, 2015, annual import 3.73 MT Import from border belt areas 58 MT Annual storage 18.6 MT.

Dental Colleges/Chambers/ Quacks **Dental Assistants Beauty Product or Cosmetics Producers** Jewelry Producers (used to re-collect gold from the waste) Pharmaceutical Companies Pesticide/biocide companies Laboratories (Academic institutions/private sectors)

Target customers

Major Sources of Mercury Emission and Release in Bangladesh

Health care & Dental sector Sphygmomanometer 7.65 MT

Annual supply 39.4 MT



Industrial processes sector, Cement, steel, Aluminiu 4.86 MT







Energy Sector (Possible sources) Coal, Gas, Furnace oil 3.06 MT





Waste deposition/land filling

Electrical sector measuring devices 0.186 MT





- Closed/abandoned Chlor-alkali production sites
- Other sites of former chemical production where mercury compounds were produced or mercury or compounds were used as catalysts (cement
- Dental clinics and hospitals (where cautionary measures are not in place)
- Gold manufacturing factories
- Closed production sites for manufacturing of thermometers, switches, batteries and other products
- 💶 Closed pulp and paper manufacturing sites (with internal Chlor-alkali
- Sites of relevant accidents
- Not included-CFLs used and indiscriminately dumping all over Bangladesh no management at any stage.

OPPORTUNITIES OF SUBSTITUTION OF MERCURY BY ALTERNATIVES

Products containing mercury Alternatives to mercury Lithium zinc, low-mercury alkaline batteries, **Button cell batteries** rechargeable mercury and cadmium free Thermometers, Sphygmomanometers, Aneroid or Digitalmeasuring devices and Light emitting diode (LED) lamp, ordinary

Lamps: fluorescent, high glow lights; low sodium vapor tubes optical, high-energy, long-las

Composite; ceramics, zirconomer etc. Dental amalgam

Mercury containing 2-phenoxy-ethanol, zinc formalin; poly vinyl alcohol

In Bangladesh, Mercury exposure is very alarming!!!

As per signatory country, Bangladesh should

- Immediately ratify "Minamata Convention"
- Phase out mercury based products and processes by 2020.
- Require promotion and training on Alternatives of mercury added products at national level
- Regulatory, and Institutional framework Programs on the uses, impacts and waste management of Mercury based products and practices

Environment and Social Development Organization-ESDO House # 8/1, Block-C. Lalmatia, Dhaka-1207, Bangladesh Tel: +880-2-9122729, E-mail: info@esdo.org, www.esdo.org

Research by: ESDO team Design and Graphics: Shahriar Hossain, Mamun ul Hasan. Produced by: Environment and Social Development Organization-ESDO

Copyright © ESDO/UNEP, 2015