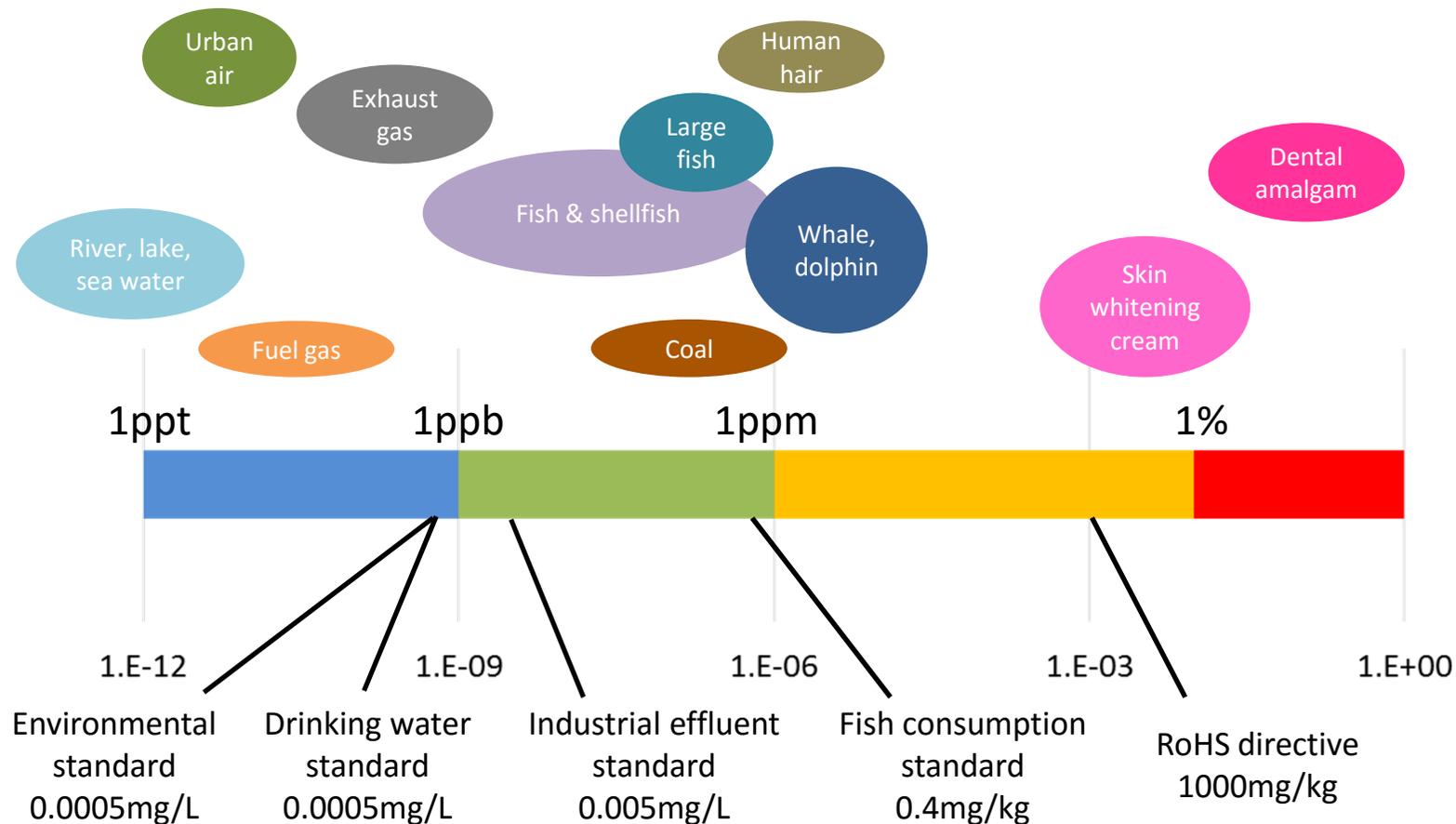


Outlines of Minamata Convention

| Article | Description |
|--|--|
| Preamble | Recall risk of mercury, recognize substantial lessons of Minamata disease |
| Objective (Article 1) | Protect human health and environment from anthropogenic emission and releases of mercury and mercury compounds |
| Supply and trade (Article 3) | Regulate mercury mining and international trade |
| Mercury-added products (Article 4) | Regulate manufacturing, import, export of mercury-added products (batteries, switches, lamps, thermometers, sphygmomanometers, etc.) |
| Manufacturing process (Article 5) | Regulate mercury use in specific manufacturing processes |
| ASGM (Article 7) | Mercury use reduction in artisanal and small-scale gold mining |
| Emissions, releases (Article 8, 9) | Regulate atmospheric emissions, releases to water and soil |
| Interim storage (Article 10) | Environmentally sound interim storage of mercury and mercury compounds |
| Mercury waste (Article 11) | Environmentally sound management of mercury waste |
| Contaminated sites (Article 12) | Identify and assess sites contaminated by mercury and mercury compounds |
| Finance, technical assistance (Article 13, 14) | Financial sources and mechanism, technical assistance and capacity building |
| Research, development, monitoring (Article 19) | Cooperation for developing and improving inventories, monitoring, modelling, impact assessment |
| Reporting (Article 21) | Report on measures taken to implement the provisions of the Convention |
| Effectiveness evaluation (Article 22) | Evaluate the effectiveness of the Convention |

Mercury Levels in Various Media

- Emissions standards: 5 emission categories (Annex D)
- Mercury waste thresholds: under discussions in COP (Article 11)
- Mercury-added products: mercury levels for products (Annex A)

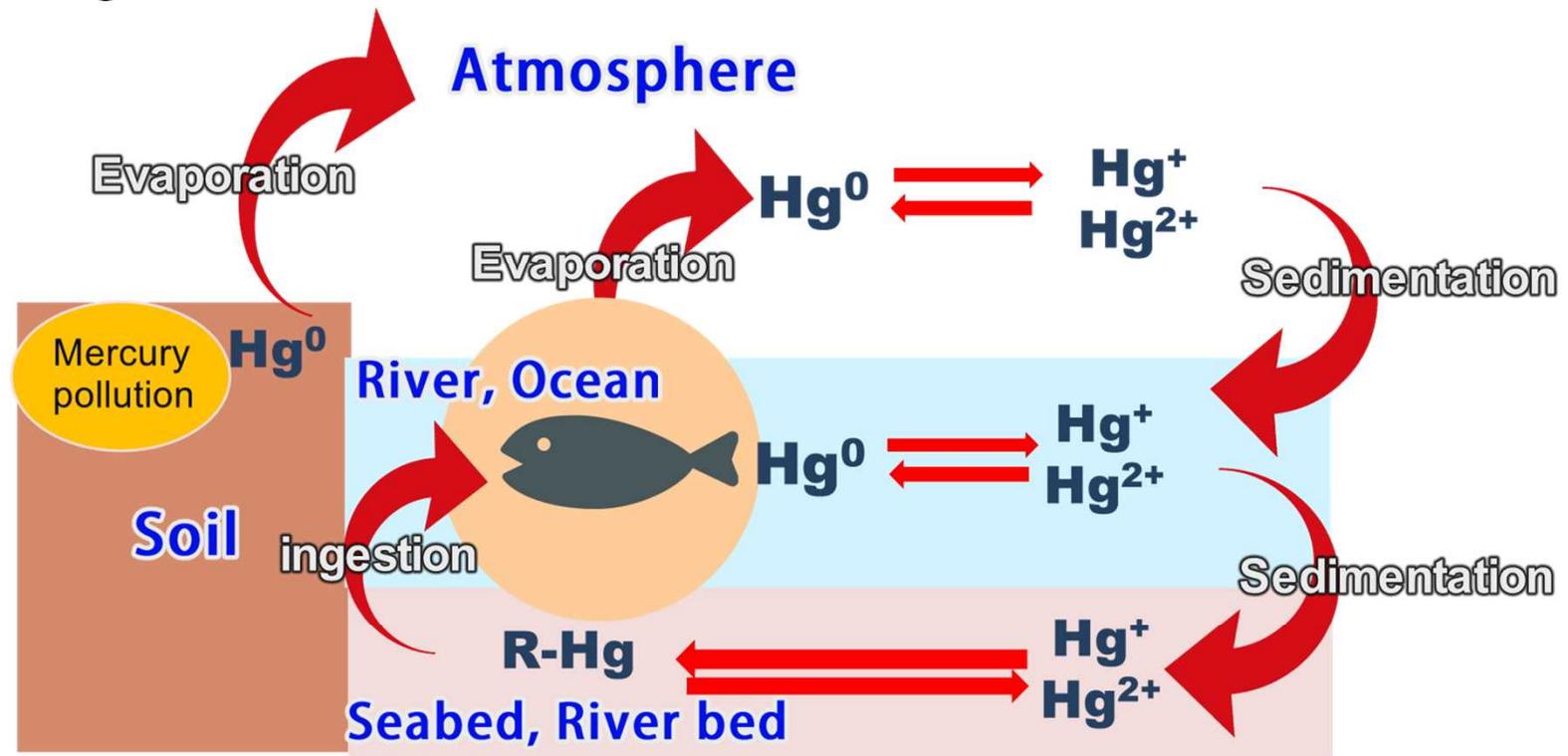


Annex A Part I: Mercury-added Products

| Types of products | Description |
|---|---|
| Batteries | Zinc silver oxide: >=2% , zinc air: >=2% |
| Switches and relays | Very high accuracy: >20mg |
| Compact fluorescent lamps for general lighting | <= 30watts: >5mg |
| Linear fluorescent lamps for general lighting | Triband phosphor < 60watts: >5mg , Halophosphate phosphor <= 40watts: >10mg |
| High pressure mercury vapour lamps for general lighting | All |
| Cold cathode fluorescent lamps, external electrode fluorescent lamps for electronic display | <= 500mm: >3.5mg , >500mm and <=1500mm: 5mg , >1500mm: >13mg |
| Cosmetics | >1ppm |
| Pesticides, biocides, topical antiseptics | All |
| Non-electronic measuring devices | Barometers, hygrometers, manometers, thermometers, sphygmomanometers |

Fate of Mercury in the Environment

- Mercury is released to the environment from various sources including natural ones in various forms.



- As it does not decompose but circulates globally and may impact wild biota and human by accumulating via food web, global actions to reduce anthropogenic emissions are necessary.

Comparison Article 19 vs Article 22

| Article 19: Research Development and Monitoring | Article 22: Effectiveness Evaluation |
|--|---|
| Responsible subject: <u>Parties</u> | Responsible subject: <u>Conference of Parties</u> |
| <p>○ <u>Shall endeavour to cooperate</u> to develop and improve:</p> <ul style="list-style-type: none"> – Inventories – Modelling and geographically representative monitoring – Assessment of impact on human health and environment – Harmonized methodologies for activities – Information <p>○ <u>Should build</u> on existing monitoring networks and research programmes.</p> | <p>○ <u>Shall evaluate</u> the effectiveness of this convention.</p> <p>○ <u>Shall initiate</u> the establishment of arrangements for providing itself with comparable monitoring data</p> <p>○ The evaluation <u>shall be conducted</u> on the basis of available scientific, environmental, technical, financial and economic information</p> |
| <p>“...modelling and geographically representative monitoring of levels of mercury and mercury compounds in <u>vulnerable populations</u> and in <u>environmental media</u>, including <u>biotic media</u> such as fish, marine mammals, sea turtles and birds, as well as collaboration in the collection and exchange of relevant and appropriate samples...”</p> | <p>“...arrangements for providing itself with comparable monitoring data on the presence and movement of mercury and mercury compounds in the <u>environment</u> as well as trends in levels of mercury and mercury compounds observed in <u>biotic media</u> and <u>vulnerable populations</u>...”</p> |
| Eligible to GEF | Not eligible to GEF |