



# Het Minamata Verdrag:

Internationale ontwikkelingen  
voor het minimaliseren en  
voorkomen van kwikgebruik

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# Inhoud

- Key findings van het rapport “UNEP Global Mercury Assessment 2013”
- Totstandkoming “Legally Binding Instrument on Mercury”
- Inhoud van het Verdrag
- Slotopmerkingen





# “UNEP Global Mercury Assessment 2013”

- Meest recente informatie over wereldwijde uitstoot van kwik en verspreiden in het milieu.
- Oorzaak menselijke (antropogene) activiteiten,
- Aquatisch milieu de voornaamste manier van verspreiding en blootstelling
- Grootste bronnen:
  - Ambachtelijke en kleinschalige goudwinning (> 35%)
  - Verbranden van kolen
  - Productie ijzer- en niet-ijzer houdende metalen en Cement productie.

<http://www.unep.org/PDF/PressReleases/GlobalMercuryAssessment2013.pdf>



# Totstandkoming Verdrag

- Onderhandelingen vier jaar onder auspiciën van de United Nations Environment Programme (UNEP)
- **Eerste verdrag dat specifiek kwik als zware metalen zal aanpakken.**
- Minamata-Verdrag, uit eerbied voor de slachtoffers van kwikvergiftiging door industriële vervuiling





# Inhoud verdrag

- A. Doelstelling
- B. Kwik Voorraadbronnen
- C. Kwik producten en industriële processen;
- D. Ambachtelijke en kleinschalige goudwinning;
- E. Emissies (lucht, water en bodem)
- F. Opslag, afval en verontreinigde gebieden
- G. Financiële en Technische steun
- H. Voorlichting, Bewustwording en Educatie

[http://www.unep.org/hazardoussubstances/Portals/9/Mercury/Documents/INC5/5\\_3\\_e\\_text.pdf](http://www.unep.org/hazardoussubstances/Portals/9/Mercury/Documents/INC5/5_3_e_text.pdf)





## A. Doel

- Het beschermen van de menselijke gezondheid en het milieu tegen antropogene uitstoot van kwik en kwikverbindingen.
- Kwik: elementaire kwik
- Kwikverbindingen: een stof die bestaat uit identieke moleculen van kwik en één of meer andere chemische elementen;





## B. Kwik Voorraadbronnen

- Verbod mijnen van kwik, na toetreding tot Verdrag
- Elke partij met kwik mijnbouw vóór datum toetreding verboden uitvoer, verkoop, distributie en handel van kwik of kwikverbindingen m.u.v.:
  - (a) gebruik bijlage D, (Part II) of
  - (b) verwijdering in overeenstemming met richtlijnen die nog vastgesteld moeten worden.



# Bijlage D

## Part II: Processes subject to Article 7, paragraph 3

Mercury-using process	Provisions of use
<p>Vinyl chloride monomer production</p>	<p>Measures to be taken by the Parties shall include but not be limited to:</p> <ul style="list-style-type: none"> <li>(i) Promoting measures to reduce the use of mercury;</li> <li>(ii) Promoting measures to reduce the reliance on mercury from primary mining;</li> <li>(iii) Controlling emissions and releases pursuant to Articles 10 and 11;</li> <li>(iv) Supporting research and development in respect of mercury-free catalysts and processes;</li> <li>(v) Not allowing the use of mercury [five years] after the Conference of the Parties has established that alternatives have become globally accessible and socio-economically and technically feasible.</li> </ul>
<p>Other process not listed in Part I and subject to restriction</p>	<p>Measures to be taken by Parties</p>







## Kwik Producten en processen

- Verbod op vervaardigen, invoer of uitvoer producten Annex C en D na de *phase-out* datum, tenzij de partij een vrijstelling heeft (artikel 8).
- Artikel 8: vrijstelling vragen Secretariaat phase-out data voor Annex C en D
- Maatregelen treffen voor beperken van gebruik producten bijlage C en D



## Annex C



### Mercury-added products

#### Part I: Products subject to Article 6, paragraph 1

NOTE: the list of products included in this table has not yet been subject to discussion and should therefore not be considered as a closed or definitive list. It is drawn from the fourth session draft text UNEP(DTIE)/Hg/INC.4/8, annex D) and is for illustrative purposes only.

Mercury-added products <sup>a</sup>	Phase-out date
Batteries [except button batteries with a mercury content less than 2% wt]	20XX
Switches and relays except switches and relays exclusively for maintenance purposes	20XX
Compact fluorescent lamps below 30 watts with a mercury content exceeding [3.5] mg	20XX
Linear fluorescent lamps - triband phosphor - T2, T5, T8, T10 and T12 and long life > 25,000 hours with a mercury content exceeding [5] mg	20XX
General purpose high pressure mercury (vapor) lamps with a mercury content exceeding [X] mg	20XX
Soaps and cosmetics	20XX
Pesticides and biocides	20XX
Sphygmomanometers	20XX
Thermometers for medical use	20XX



## Part II: Products subject to Article 6, paragraph 2

Mercury-added products	Provisions of use <sup>a</sup>
<b>Dental amalgam</b>	<p>Measures to be taken by a Party to reduce the use of dental amalgam shall take into account the Party's domestic circumstances and relevant international guidance, and shall include but not be limited to:</p> <ul style="list-style-type: none"> <li>(i) Promoting the use of available and effective mercury-free dental filling alternatives;</li> <li>(ii) Educating consumers and training dental professionals and students on the use of mercury-free dental filling alternatives;</li> <li>(iii) Discouraging insurance policies, programmes and mandates that favour dental amalgam use over mercury-free dental filling alternatives;</li> <li>(iv) Discouraging the use of dental amalgam in children, pregnant women and other sensitive populations;</li> <li>(v) Restricting the use of dental amalgam to its encapsulated form.</li> <li>(vi) Ascertaining baseline data on quantities of dental amalgam used, and reporting every three years to the Conference of the Parties on the amount of mercury manufactured, imported, or used in dental amalgam, and the progress made to meet the Party's obligations under this paragraph and reduce mercury use over this period.</li> </ul>
[Other products not listed in Part I and subject to restriction]	

<sup>a</sup> These provisions of use are examples based on a conference room paper UNEP(DTIE)/Hg/INC.4/CRP.3) presented at the fourth session.



# Bijlage D

## Part II: Processes subject to Article 7, paragraph 3

Mercury-using process	Provisions of use
<p>Vinyl chloride monomer production</p>	<p>Measures to be taken by the Parties shall include but not be limited to:</p> <ul style="list-style-type: none"> <li>(i) Promoting measures to reduce the use of mercury;</li> <li>(ii) Promoting measures to reduce the reliance on mercury from primary mining;</li> <li>(iii) Controlling emissions and releases pursuant to Articles 10 and 11;</li> <li>(iv) Supporting research and development in respect of mercury-free catalysts and processes;</li> <li>(v) Not allowing the use of mercury [five years] after the Conference of the Parties has established that alternatives have become globally accessible and socio-economically and technically feasible.</li> </ul>
<p>Other process not listed in Part I and subject to restriction</p>	<p>Measures to be taken by Parties</p>





# Ambachtelijke en kleinschalige goudwinning (ASGM)



- *Def.:* goudwinning uitgevoerd door individuele mijnwerkers of kleine ondernemingen met beperkte investeringen en productie
- Partijen maatregelen treffen ter vermindering, en waar mogelijk elimineren, van gebruik van kwik en kwikverbindingen
- Ontwikkelen en implementeren Nationaal Actieplan niet later dan drie jaar na toetreding



# Artisanal and small-scale gold mining

## National action plans

1. Each Party that is subject to the provisions of paragraph 3 of Article 9 shall include in its national action plan:

- (a) National objectives and reduction targets;
- (b) **Actions to eliminate:**
  - (i) Whole ore amalgamation;
  - (ii) **Open burning of amalgam or processed amalgam;**
  - (iii) **Burning of amalgam in residential areas; and**
  - (iv) Cyanide leaching in sediment, ore or tailings to which mercury has been added without first removing the mercury;
- (c) Steps to facilitate the formalization or regulation of the artisanal and small-scale gold mining sector;
- (d) Baseline estimates of the quantities of mercury used and the practices employed in artisanal and small-scale gold mining and processing within its territory;
- (e) **Strategies for promoting the reduction of emissions and releases of, and exposure to, mercury in artisanal and small-scale gold mining and processing, including mercury-free methods;**
- (f) Strategies for managing or preventing the diversion of mercury and mercury compounds to use in artisanal and small-scale gold mining and processing;
- (g) Strategies for involving stakeholders in the implementation and continuing development of the national action plan;
- (h) **A public health strategy on the exposure of artisanal and small-scale gold miners and their communities to mercury. Such a strategy should include, inter alia, the gathering of health data, training for health-care workers and awareness-raising through health facilities;**
  - (i) Strategies to prevent the exposure of vulnerable populations, particularly children and women of child-bearing age, especially pregnant women, to mercury used in artisanal and small-scale gold mining;
  - (j) Strategies for providing information to artisanal and small-scale gold miners and affected communities; and
  - (k) **A schedule for the implementation of the national action plan.**

2. Each Party may include in its national action plan additional strategies to achieve its objectives, including the use or introduction of standards for mercury-free artisanal and small-scale gold mining and market-based mechanisms or marketing tools.





## Emissies (lucht, water en bodem)

- Partij vaststellen emissiebronnen op grondgebied (bijlage F)
- Plan adopteren voor vermindering uitstoot en vaststellen van emissiegrenswaarden
- Treffen technische maatregelen en gebruik van de *best available techniques* en de *best environmental practices*.
- Stimuleren van maatregelen ter bestrijding / verkleinen uitstoot afhankelijk van de economische en technische haalbaarheid, betaalbaarheid en de nationale omstandigheden



# Emissies bronnen



Source category	Threshold
Coal-fired power plants	Rated thermal input of [X] MW
Coal-fired industrial boilers	Rated thermal input of [X] MW
Lead production facilities	[X] metric tons per day
Zinc production facilities	[X] metric tons per day
Copper production facilities	[X] metric tons per day
Industrial gold production facilities	[X] metric tons per day
[Manganese production facilities ]	[X] metric tons per day
Waste incineration facilities	[X] metric tons per day
Cement production facilities	[X] metric tons per day
[Iron and steel manufacturing facilities] [, including secondary steel plants]	[X] metric tons per day
[Oil and gas production and processing facilities]	No proposal at this time
[Facilities in which mercury-added products are manufactured]	No proposal at this time
[Facilities that use mercury or mercury compounds in the manufacturing processes listed in Annex D]	No proposal at this time





# Opslag, afval en verontreinigde locaties

- Richtlijnen Verdrag van Bazel
- COP vaststellen richtlijnen milieuvriendelijke opslag, management en afval faciliteiten
- Strategieën ontwikkelen voor identificeren en beoordelen verontreinigde gebieden.
- COP richtlijnen ontwikkelen voor beheer verontreinigde gebieden:
  - a. Vaststellen Criteria Identificeren gebieden
  - b. Assessment van gezondheid mens en milieu;
  - d. Management van verontreinigde locaties;
  - e. Betrekken het publiek;





# Financiële en technische steun



Instellen fonds voor capaciteitsopbouw, de overdracht van technologie en de financiële en technische bijstand aan Ontwikkelingslanden



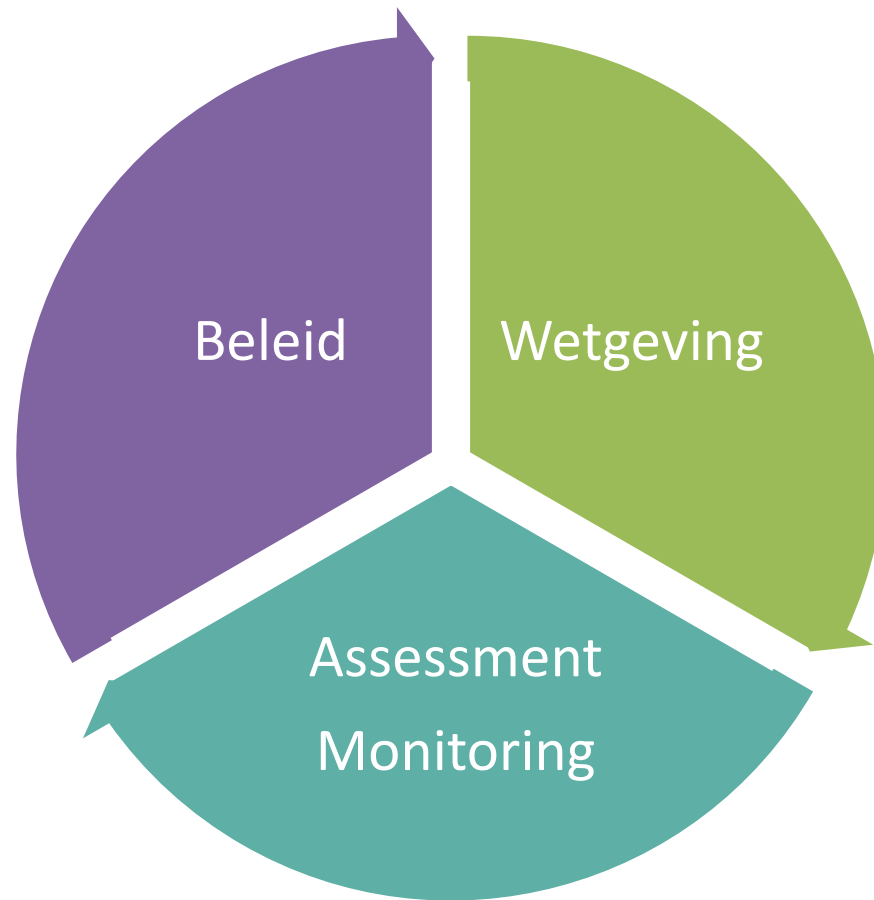
# Bewustwording, onderzoek, monitoring en educatie



- Verstrekken informatie aan publiek over gezondheids-en milieueffecten van kwik en kwikverbindingen;
- Promoten alternatieven voor gebruik kwik
- Resultaten van onderzoek, plannen en monitoringsactiviteiten publiceren
- Onderwijs, opleiding: de effecten van blootstelling aan kwik



# Slotopmerkingen





# Dank U

**“Mercury a Global Threat to Human  
and the Environment”**

[www.nimos.org](http://www.nimos.org)