



**Conference of the Parties to the
Minamata Convention on Mercury
Sixth Meeting**

Geneva, 3–7 November 2025

Item 4 (b) (iv) of the provisional agenda**

**Matters for consideration or action by the Conference
of the Parties: mercury-added products and
manufacturing processes in which mercury or mercury
compounds are used: extensions of exemptions**

**Request to extend the exemptions pursuant to paragraph 6 of
article 6: Submission by Thailand*****

Note by the secretariat

1. As explained in document UNEP/MC/COP.6/6/Add.3, the Conference of the Parties may wish to consider the request by Thailand to extend exemptions pursuant to paragraph 6 of article 6. The secretariat received a letter from Thailand on 25 July 2025.
2. The letter and its attachment are set out in the annex to the present note, without formal editing.

* Reissued for technical reasons on 19 September 2025.

** UNEP/MC/COP.6/1/Rev.1.

*** This document has not been formally edited.

Annex

Submission from Thailand: Request for an extension of the exemption for mercury-added products for consideration by the Conference of the Parties to the Minamata Convention on Mercury



No. 0304/ 19314

Pollution Control Department
92 Soi Phahon Yothin 7, Phahon Yothin Rd.,
Phayathai, Bangkok 10400 THAILAND
Tel: 66 2298 2076

25 July B.E. 2568 (2025)

Ms. Monika Stankiewicz,

Subject: Thailand's request for an extension of the exemption for mercury-added products for consideration by the Conference of the Parties to the Minamata Convention on Mercury.

I wish to refer to Thailand's Registration of Exemption for mercury-added products and processes listed in Part I of Annexes A, dated 7 February 2019, that was made pursuant to Article 6, paragraph 1, of the Minamata Convention on Mercury.

In this connection, I, as the National Focal Point to the Minamata Convention on Mercury, hereby notify the Secretariat of the Minamata Convention on Mercury that Thailand wishes, pursuant to Article 6, paragraph 6, of the Minamata Convention on Mercury, to request that the Sixth Meeting of the Conference of the Parties to the Minamata Convention on Mercury, which will take place in November 2025, decide to extend for a period of five years Thailand's registered exemption for the following mercury-added products, as listed in Part I of Annex A:

1. Switches and relays
2. Compact fluorescent lamps (CFLs)
3. Linear fluorescent lamps (LFLs)
4. Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for electronic displays
5. High pressure mercury vapour lamps (HPMV)
6. Non-electronic measuring devices

Please find attached additional information regarding Thailand's extend request for consideration of the Conference of the Parties to the Minamata Convention on Mercury.

Accept, Madam, the assurance of my highest consideration.

Yours sincerely,

(Ms.Preeyaporn Suwanaged)

Director General

Pollution Control Department

Ms. Monika Stankiewicz
Executive Secretary,
Secretariat of the Minamata Convention on Mercury,
United Nations Environment Programme,
Geneva

**Request and Supporting Documents for Thailand's Extension of Exemption Period
Request for Extension of Exemption Period under Article 4 for Mercury-Added Products
in Accordance with the Minamata Convention on Mercury**

Thailand submits a request for an extension of the exemption period for the following six mercury-added products:

1. Switches and relays
2. Compact fluorescent lamps (CFLs)
3. Linear fluorescent lamps (LFLs)
4. Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for electronic displays
5. High pressure mercury vapour lamps (HPMV)
6. Non-electronic measuring devices

| Mercury-added products | Date after which the manufacture, import or export of the product shall not be allowed (phase-out date) |
|---|--|
| 1. Switches and relays, except very high accuracy capacitance and loss measurement bridges and high frequency radio frequency switches and relays in monitoring and control instruments with a maximum mercury content of 20 mg per bridge, switch or relay | <p><u>Phase-out date</u> the year 2025 (B.E. 2568)</p> <p><u>Request for Extension of Exemption Period</u> A five-year extension from the phase-out date, as specified in Annex A, through 2030.</p> <p><u>The explanation of the need for the exemption</u> 1. The development of effective domestic regulations to phase out mercury-added products requires cross-sectoral coordination and mechanisms such as</p> <ul style="list-style-type: none"> - Amendment of industrial product standards for mercury-added products to restrict the use of mercury - Public hearing on the draft ministerial regulation - Determination of specific customs tariff codes for mercury-added products |

| Mercury-added products | Date after which the manufacture, import or export of the product shall not be allowed (phase-out date) |
|--|--|
| | <p>- Issuance of a ministerial regulation prescribing mercury-added electrical and electronic equipment to comply with industrial standards</p> <p>2. Alternatives require additional time for efficiency and accuracy testing.</p> |
| <p>2. Compact fluorescent lamps (CFLs) for general lighting purposes that are \leq 30 watts with a mercury content exceeding 5 mg per lamp burner</p> | <p><u>Phase-out date</u> the year 2025 (B.E. 2568)</p> <p><u>Request for Extension of Exemption Period</u> A five-year extension from the phase-out date, as specified in Annex A, through 2030.</p> <p><u>The explanation of the need for the exemption</u> 1. The development of effective domestic regulations to phase out mercury-added products requires cross-sectoral coordination and mechanisms such as</p> <ul style="list-style-type: none"> - Amendment of industrial product standards for mercury-added products to restrict the use of mercury - Public hearing on the draft ministerial regulation - Determination of specific customs tariff codes for mercury-added products - Issuance of a ministerial regulation prescribing mercury-added electrical and electronic equipment to comply with industrial standards <p>2. Alternatives require additional time for efficiency and accuracy testing.</p> |
| <p>3. Linear fluorescent lamps (LFLs) for general lighting purposes:</p> <p>(a) Triband phosphor < 60 watts with a mercury content exceeding 5 mg per lamp;</p> | <p><u>Phase-out date</u> the year 2025 (B.E. 2568)</p> <p><u>Request for Extension of Exemption Period</u> A five-year extension from the phase-out date, as specified in Annex A, through 2030.</p> |

| Mercury-added products | Date after which the manufacture, import or export of the product shall not be allowed (phase-out date) |
|---|--|
| (b) Halophosphate phosphor \leq 40 watts with a mercury content exceeding 10 mg per lamp | <p><u>The explanation of the need for the exemption</u></p> <p>1. The development of effective domestic regulations to phase out mercury-added products requires cross-sectoral coordination and mechanisms such as</p> <ul style="list-style-type: none"> - Amendment of industrial product standards for mercury-added products to restrict the use of mercury - Public hearing on the draft ministerial regulation - Determination of specific customs tariff codes for mercury-added products - Issuance of a ministerial regulation prescribing mercury-added electrical and electronic equipment to comply with industrial standards <p>2. Alternatives require additional time for efficiency and accuracy testing.</p> |
| 4. High pressure mercury vapour lamps (HPMV) for general lighting purposes | <p><u>Phase-out date</u> the year 2025 (B.E. 2568)</p> <p><u>Request for Extension of Exemption Period</u> A five-year extension from the phase-out date, as specified in Annex A, through 2030.</p> <p><u>The explanation of the need for the exemption</u></p> <ul style="list-style-type: none"> - National Inventory of Information on this Mercury-Added Products - Develop domestic mechanisms to Reduce/Phase Out this Mercury-Added Products |
| <p>5. Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for electronic displays:</p> <p>(a) Short length (\leq 500 mm) with mercury content exceeding 3.5 mg per lamp</p> | <p><u>Phase-out date</u> the year 2025 (B.E. 2568)</p> <p><u>Request for Extension of Exemption Period</u> A five-year extension from the phase-out date, as specified in Annex A, through 2030.</p> |

| Mercury-added products | Date after which the manufacture, import or export of the product shall not be allowed (phase-out date) |
|--|--|
| <p>(b) Medium length (> 500 mm and ≤ 1,500 mm) with mercury content exceeding 5 mg per lamp</p> <p>(c) Long length (> 1,500 mm) with mercury content exceeding 13 mg per lamp</p> | <p><u>The explanation of the need for the exemption</u></p> <p>1. The development of effective domestic regulations to phase out mercury-added products requires cross-sectoral coordination and mechanisms such as</p> <ul style="list-style-type: none"> - Amendment of industrial product standards for mercury-added products to restrict the use of mercury - Public hearing on the draft ministerial regulation - Determination of specific customs tariff codes for mercury-added products - Issuance of a ministerial regulation prescribing mercury-added electrical and electronic equipment to comply with industrial standards <p>2. Alternatives require additional time for efficiency and accuracy testing.</p> |
| <p>6. The following non-electronic measuring devices except non electronic measuring devices installed in large-scale equipment or those used for high precision measurement, where no suitable mercury free alternative is available:</p> <ul style="list-style-type: none"> (a) Barometers; (b) Hygrometers; (c) Manometers; (d) Thermometers; (e) Sphygmomanometers. | <p><u>Phase-out date</u></p> <p>the year 2025 (B.E. 2568)</p> <p><u>Request for Extension of Exemption Period</u></p> <p>A five-year extension from the phase-out date, as specified in Annex A, through 2030.</p> <p><u>The explanation of the need for the exemption</u></p> <ul style="list-style-type: none"> - National Inventory of Information on this Mercury-Added Products - Develop domestic mechanisms to Reduce/Phase Out this Mercury-Added Products |

Thailand's Request and Supporting Documents for the Extension of the Exemption Period under Annex A of the Minamata Convention

| NO. | Mercury-added Products | the need to extend additional exceptions |
|-----|--|--|
| 1. | <p>Switches and relays, except very high accuracy capacitance and loss measurement bridges and high frequency radio frequency switches and relays in monitoring and control instruments with a maximum mercury content of 20 mg per bridge, switch or relay</p> <p>*A request for a five-year extension from the phase-out date, as specified in Annex A, through 2023.*</p> | <p>1. Report explaining the reasons for the need to extend the exemption request by specifying the activities that have already been carried out, including the activities and plans that have been planned according to the request for an exception as necessary, and specifying the period for which an additional exception is requested (not exceeding 5 years).</p> <p>Main agency: Thai Industrial Standards Institute (TISI), Ministry of Industry</p> <p>1.1 Implementation progress</p> <p>1) Ministry of Industry Announcement on the determination of industrial product standards for mercury-added product – restriction of the use of mercury B.E. 2567. Standard No. TIS 3604-2023 announced on 29 March 2024 and announced in the Government Gazette, Announcement and General Affairs Edition, Volume 141, Special Part 138, dated 17 May B.E. 2567</p> <p>2) Public Hearing on the Draft Ministerial Regulation Prescribing Industrial Products for Mercury-Added Electrical and Electronic Equipment to Conform to the Standards B.E. The public hearing to be conducted within 60 days of the announcement dated 25 January 2024 (B.E. 2567).</p> <p>3) Notification of the Draft Ministerial Regulation to the World Trade Organization (WTO) on 12 February 2024, Notification Document No. G/TBT/N/THA/727.</p> <p>1.2 Planned Activities for the Additional 5-Year Exemption Period</p> <p>1) The study is currently being conducted within the country to assess the impacts of the legislation regulating the production and import of mercury-added products under the "Advanced Minamata Assessment in Thailand" project. The project is expected to commence in mid-2025 and will have a duration of 2 years.</p> <p>2) Determination of specific customs tariff codes for mercury-added products, utilizing the main operational mechanisms of the Thai Industrial Standards Institute and the Customs Department, in conjunction</p> |

| NO. | Mercury-added Products | the need to extend additional exceptions |
|-----|------------------------|--|
| | | <p>with supporting mechanisms from the Working Group on Legal Affairs to support the obligations under the Minamata Convention, which is under the supervision of the Subcommittee on the Minamata Convention.</p> <p>3) Public hearing on the draft Ministerial Regulation stipulating that industrial products in the category of electrical and electronic equipment containing mercury must comply with the relevant standards (revised edition), and potential amendments to the industrial product standard, “Mercury-Added Products – Restriction of the Use of Mercury,” Standard No. TIS 3604-2566, if deemed necessary.</p> <p>4) Capacity building and readiness enhancement of testing laboratories for mercury-added products to facilitate the issuance of licenses and certifications.</p> <p>5) Preparation of the Ministerial Regulations Prescribing Industrial Products for Mercury-Added Electrical and Electronic Equipment to Conform to the Standards.</p> <p>2. Available information, including in respect of the availability of alternative products and processes that are free of mercury or that involve the consumption of less mercury than the exempt use.</p> <p>2.1 Department of Industrial Works</p> <p>- According to the factory database of the Department of Industrial Works during the period from 2017 to 2024 (as of 11 November 2024), a total of 45 factories were identified as engaging in activities related to <u>the production of electrical switches and fluorescent lamps</u>. Among these, only one factory was found to use mercury as a raw material in the production of fluorescent lamps.</p> <p>- According to the hazardous substance data from the Department of Industrial Works’ notification system for the production or import of hazardous substances, covering the period from 2017 to 2024 (as of 24 October 2024), there have been notifications of mercury importation for the following purposes: (1) production of circuit boards and fluorescent lamps; (2) use as a coating substance inside fluorescent lamps; and (3) testing of electronic-related products. These findings are based on the summary of hazardous substance notifications (Form Wor.Aor. 6) submitted between 2017 and 2024 by operators involved in the production of electrical switches and fluorescent lamps.</p> |

| NO. | Mercury-added Products | the need to extend additional exceptions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|--|------------|--|-----------------------|---|--|--|--|-------------------|------------|------------|------------|------------|--|------------|------------|------------|------------|--|------------|------------|------------|------------|--|------------|------------|------------|------------|--|------------|------------|------------|------------|--|------------|------------|------------|------------|--------|------------|------------|------------|------------|--|------------|------------|------------|------------|--|------------|------------|------------|------------|--|------------|------------|------------|------------|
| | | <p data-bbox="719 261 1070 292">2.2 Customs Department</p> <p data-bbox="674 308 2083 432">- Information on the annual import–export volumes, as well as the names of companies or other relevant data concerning mercury-added products in this category, including mercury-free products and products containing mercury in amounts below the exemption thresholds.</p> <p data-bbox="792 443 1207 474">- Relevant Customs Tariff Codes</p> <table border="1" data-bbox="674 480 2078 1031"> <thead> <tr> <th data-bbox="674 480 922 571">mercury-added product</th> <th colspan="2" data-bbox="922 480 1503 571">All customs tariffs related to goods HS2017 (2017 - 2021)</th> <th colspan="2" data-bbox="1503 480 2078 571">All customs tariffs related to goods HS2022 (2022 - present)</th> </tr> </thead> <tbody> <tr> <td data-bbox="674 571 922 847">Electrical switch</td> <td data-bbox="922 571 1137 617">8536.50.20</td> <td data-bbox="1137 571 1503 617">8536.50.32</td> <td data-bbox="1503 571 1718 617">8536.50.20</td> <td data-bbox="1718 571 2078 617">8536.50.32</td> </tr> <tr> <td></td> <td data-bbox="922 617 1137 663">8536.50.33</td> <td data-bbox="1137 617 1503 663">8536.50.39</td> <td data-bbox="1503 617 1718 663">8536.50.33</td> <td data-bbox="1718 617 2078 663">8536.50.39</td> </tr> <tr> <td></td> <td data-bbox="922 663 1137 710">8536.50.40</td> <td data-bbox="1137 663 1503 710">8536.50.51</td> <td data-bbox="1503 663 1718 710">8536.50.40</td> <td data-bbox="1718 663 2078 710">8536.50.51</td> </tr> <tr> <td></td> <td data-bbox="922 710 1137 756">8536.50.59</td> <td data-bbox="1137 710 1503 756">8536.50.61</td> <td data-bbox="1503 710 1718 756">8536.50.59</td> <td data-bbox="1718 710 2078 756">8536.50.61</td> </tr> <tr> <td></td> <td data-bbox="922 756 1137 802">8536.50.69</td> <td data-bbox="1137 756 1503 802">8536.50.92</td> <td data-bbox="1503 756 1718 802">8536.50.69</td> <td data-bbox="1718 756 2078 802">8536.50.95</td> </tr> <tr> <td></td> <td data-bbox="922 802 1137 847">8536.50.95</td> <td data-bbox="1137 802 1503 847">8536.50.99</td> <td data-bbox="1503 802 1718 847">8536.50.96</td> <td data-bbox="1718 802 2078 847">8536.50.99</td> </tr> <tr> <td data-bbox="674 847 922 1031">relays</td> <td data-bbox="922 847 1137 893">8536.41.10</td> <td data-bbox="1137 847 1503 893">8536.41.20</td> <td data-bbox="1503 847 1718 893">8536.41.10</td> <td data-bbox="1718 847 2078 893">8536.41.20</td> </tr> <tr> <td></td> <td data-bbox="922 893 1137 940">8536.41.30</td> <td data-bbox="1137 893 1503 940">8536.41.40</td> <td data-bbox="1503 893 1718 940">8536.41.30</td> <td data-bbox="1718 893 2078 940">8536.41.40</td> </tr> <tr> <td></td> <td data-bbox="922 940 1137 986">8536.41.91</td> <td data-bbox="1137 940 1503 986">8536.41.99</td> <td data-bbox="1503 940 1718 986">8536.41.91</td> <td data-bbox="1718 940 2078 986">8536.41.99</td> </tr> <tr> <td></td> <td data-bbox="922 986 1137 1031">8536.49.10</td> <td data-bbox="1137 986 1503 1031">8536.49.90</td> <td data-bbox="1503 986 1718 1031">8536.49.10</td> <td data-bbox="1718 986 2078 1031">8536.49.90</td> </tr> </tbody> </table> | | | | mercury-added product | All customs tariffs related to goods HS2017 (2017 - 2021) | | All customs tariffs related to goods HS2022 (2022 - present) | | Electrical switch | 8536.50.20 | 8536.50.32 | 8536.50.20 | 8536.50.32 | | 8536.50.33 | 8536.50.39 | 8536.50.33 | 8536.50.39 | | 8536.50.40 | 8536.50.51 | 8536.50.40 | 8536.50.51 | | 8536.50.59 | 8536.50.61 | 8536.50.59 | 8536.50.61 | | 8536.50.69 | 8536.50.92 | 8536.50.69 | 8536.50.95 | | 8536.50.95 | 8536.50.99 | 8536.50.96 | 8536.50.99 | relays | 8536.41.10 | 8536.41.20 | 8536.41.10 | 8536.41.20 | | 8536.41.30 | 8536.41.40 | 8536.41.30 | 8536.41.40 | | 8536.41.91 | 8536.41.99 | 8536.41.91 | 8536.41.99 | | 8536.49.10 | 8536.49.90 | 8536.49.10 | 8536.49.90 |
| mercury-added product | All customs tariffs related to goods HS2017 (2017 - 2021) | | All customs tariffs related to goods HS2022 (2022 - present) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Electrical switch | 8536.50.20 | 8536.50.32 | 8536.50.20 | 8536.50.32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8536.50.33 | 8536.50.39 | 8536.50.33 | 8536.50.39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8536.50.40 | 8536.50.51 | 8536.50.40 | 8536.50.51 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8536.50.59 | 8536.50.61 | 8536.50.59 | 8536.50.61 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8536.50.69 | 8536.50.92 | 8536.50.69 | 8536.50.95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8536.50.95 | 8536.50.99 | 8536.50.96 | 8536.50.99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| relays | 8536.41.10 | 8536.41.20 | 8536.41.10 | 8536.41.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8536.41.30 | 8536.41.40 | 8536.41.30 | 8536.41.40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8536.41.91 | 8536.41.99 | 8536.41.91 | 8536.41.99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8536.49.10 | 8536.49.90 | 8536.49.10 | 8536.49.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | <p data-bbox="203 1090 645 1305">Compact fluorescent lamps (CFLs) for general lighting purposes that are ≤ 30 watts with a mercury content exceeding 5 mg per lamp burner</p> | <p data-bbox="674 1090 2083 1257">1. Report explaining the reasons for the need to extend the exemption request by specifying the activities that have already been carried out, including the activities and plans that have been planned according to the request for an exception as necessary, and specifying the period for which an additional exception is requested (not exceeding 5 years).</p> <p data-bbox="714 1270 1727 1305">Main agency: Thai Industrial Standards Institute (TISI), Ministry of Industry</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| NO. | Mercury-added Products | the need to extend additional exceptions |
|-----|--|---|
| | <p>*A request for a five-year extension from the phase-out date, as specified in Annex A, through 2023.*</p> | <p>1.1 Implementation progress</p> <p>1) Ministry of Industry Announcement on the determination of industrial product standards for mercury-added product – restriction of the use of mercury B.E. 2567. Standard No. TIS 3604-2023 announced on 29 March 2024 and announced in the Government Gazette, Announcement and General Affairs Edition, Volume 141, Special Part 138, dated 17 May B.E. 2567</p> <p>2) Public Hearing on the Draft Ministerial Regulation Prescribing Industrial Products for Mercury-Added Electrical and Electronic Equipment to Conform to the Standards B.E. The public hearing to be conducted within 60 days of the announcement dated 25 January 2024 (B.E. 2567).</p> <p>3) Notification of the Draft Ministerial Regulation to the World Trade Organization (WTO) on 12 February 2024, Notification Document No. G/TBT/N/THA/727.</p> <p>1.2 Planned Activities for the Additional 5-Year Exemption Period</p> <p>1) The study is currently being conducted within the country to assess the impacts of the legislation regulating the production and import of mercury-added products under the "Advanced Minamata Assessment in Thailand" project. The project is expected to commence in mid-2025 and will have a duration of 2 years.</p> <p>2) Determination of specific customs tariff codes for mercury-added products, utilizing the main operational mechanisms of the Thai Industrial Standards Institute and the Customs Department, in conjunction with supporting mechanisms from the Working Group on Legal Affairs to support the obligations under the Minamata Convention, which is under the supervision of the Subcommittee on the Minamata Convention.</p> <p>3) Public hearing on the draft Ministerial Regulation stipulating that industrial products in the category of electrical and electronic equipment containing mercury must comply with the relevant standards (revised edition), and potential amendments to the industrial product standard, “Mercury-Added Products – Restriction of the Use of Mercury,” Standard No. TIS 3604-2566, if deemed necessary.</p> <p>4) Capacity building and readiness enhancement of testing laboratories for mercury-added products to facilitate the issuance of licenses and certifications.</p> |

| NO. | Mercury-added Products | the need to extend additional exceptions |
|-----|------------------------|--|
| | | <p>5) Preparation of the Ministerial Regulations Prescribing Industrial Products for Mercury-Added Electrical and Electronic Equipment to Conform to the Standards</p> <p>1.3 Other related information</p> <p>1) TIS 2234-2014: Self-ballasted Lamps for General Lighting Services – Safety Requirements. At present, there is 1 licensee for domestic production; however, no production data has been reported. Additionally, there are 11 licensed importers, with records of product imports still found in the National Single Window (NSW) system.</p> <p>2) TIS 2235-2014: Single-Capped Fluorescent Lamps – Safety Specifications (Partial Scope). At present, there is 1 licensed manufacturer, and production data has been reported. Additionally, there are 5 licensed importers, with records of product imports still found in the National Single Window (NSW) system.</p> <p>2. Available information, including in respect of the availability of alternative products and processes that are free of mercury or that involve the consumption of less mercury than the exempt use.</p> <p>2.1 Department of Industrial Works</p> <p>- According to the factory database of the Department of Industrial Works during the period from 2017 to 2024 (as of 11 November 2024), a total of 45 factories were identified as engaging in activities related to <u>the production of electrical switches and fluorescent lamps</u>. Among these, only one factory was found to use mercury as a raw material in the production of fluorescent lamps.</p> <p>- According to the hazardous substance data from the Department of Industrial Works' notification system for the production or import of hazardous substances, covering the period from 2017 to 2024 (as of 24 October 2024), there have been notifications of mercury importation for the following purposes: (1) production of circuit boards and fluorescent lamps; (2) use as a coating substance inside fluorescent lamps; and (3) testing of electronic-related products. These findings are based on the summary of hazardous substance notifications (Form Wor.Aor. 6) submitted between 2017 and 2024 by operators involved in the production of electrical switches and fluorescent lamps.</p> |

| NO. | Mercury-added Products | the need to extend additional exceptions | | | | | | | | | | |
|------------------------------|---|---|--|--|-----------------------|---|---------|------------------------------|--|--|-------|--------------------------|
| | | <p>2.2 Customs Department</p> <p>- Information on the annual import–export volumes, as well as the names of companies or other relevant data concerning mercury-added products in this category, including mercury-free products and products containing mercury in amounts below the exemption thresholds.</p> <p>- Relevant Customs Tariff Codes for Compact Fluorescent Lamps (CFLs) for General Use Are Categorized into Two Groups as Follows:</p> <table border="1" data-bbox="676 523 2078 895"> <thead> <tr> <th data-bbox="676 523 981 663">mercury-added product</th> <th data-bbox="981 523 1435 663">All customs tariffs related to goods HS2017 (2017 - 2021) and HS2022 (2022 - present)</th> <th data-bbox="1435 523 2078 663">Remarks</th> </tr> </thead> <tbody> <tr> <td data-bbox="676 663 981 799">Hot cathode fluorescent lamp</td> <td data-bbox="981 663 1435 799">8539.31.10 8539.31.30 8539.31.90</td> <td data-bbox="1435 663 2078 895" rowspan="2">1. Compact fluorescent lamps include both hot cathode types and other variants. 2. The customs tariff classification of compact fluorescent lamps is not influenced by wattage.</td> </tr> <tr> <td data-bbox="676 799 981 895">other</td> <td data-bbox="981 799 1435 895">8539.39.10 8539.39.90</td> </tr> </tbody> </table> | | | mercury-added product | All customs tariffs related to goods HS2017 (2017 - 2021) and HS2022 (2022 - present) | Remarks | Hot cathode fluorescent lamp | 8539.31.10 8539.31.30 8539.31.90 | 1. Compact fluorescent lamps include both hot cathode types and other variants. 2. The customs tariff classification of compact fluorescent lamps is not influenced by wattage. | other | 8539.39.10 8539.39.90 |
| mercury-added product | All customs tariffs related to goods HS2017 (2017 - 2021) and HS2022 (2022 - present) | Remarks | | | | | | | | | | |
| Hot cathode fluorescent lamp | 8539.31.10 8539.31.30 8539.31.90 | 1. Compact fluorescent lamps include both hot cathode types and other variants. 2. The customs tariff classification of compact fluorescent lamps is not influenced by wattage. | | | | | | | | | | |
| other | 8539.39.10 8539.39.90 | | | | | | | | | | | |
| 3. | <p>Linear fluorescent lamps (LFLs) for general lighting purposes:</p> <p>(a) Triband phosphor < 60 watts with a mercury content exceeding 5 mg per lamp;</p> <p>(b) Halophosphate phosphor ≤ 40 watts with a mercury content exceeding 10 mg per lamp</p> | <p>1. Report explaining the reasons for the need to extend the exemption request by specifying the activities that have already been carried out, including the activities and plans that have been planned according to the request for an exception as necessary, and specifying the period for which an additional exception is requested (not exceeding 5 years).</p> <p>Main agency: Thai Industrial Standards Institute (TISI), Ministry of Industry</p> <p>1.1 Implementation progress</p> <p>1) Ministry of Industry Announcement on the determination of industrial product standards for mercury-added product – restriction of the use of mercury B.E. 2567. Standard No. TIS 3604-2023 announced on 29 March 2024 and announced in the Government Gazette, Announcement and General Affairs Edition, Volume 141, Special Part 138, dated 17 May B.E. 2567</p> | | | | | | | | | | |

| NO. | Mercury-added Products | the need to extend additional exceptions |
|-----|--|--|
| | <p>*A request for a five-year extension from the phase-out date, as specified in Annex A, through 2023.*</p> | <p>2) Public Hearing on the Draft Ministerial Regulation Prescribing Industrial Products for Mercury-Added Electrical and Electronic Equipment to Conform to the Standards B.E.The public hearing to be conducted within 60 days of the announcement dated 25 January 2024 (B.E. 2567).</p> <p>3) Notification of the Draft Ministerial Regulation to the World Trade Organization (WTO) on 12 February 2024, Notification Document No. G/TBT/N/THA/727.</p> <p>1.2 Planned Activities for the Additional 5-Year Exemption Period</p> <p>1) The study is currently being conducted within the country to assess the impacts of the legislation regulating the production and import of mercury-added products under the "Advanced Minamata Assessment in Thailand" project. The project is expected to commence in mid-2025 and will have a duration of 2 years.</p> <p>2) Determination of specific customs tariff codes for mercury-added products, utilizing the main operational mechanisms of the Thai Industrial Standards Institute and the Customs Department, in conjunction with supporting mechanisms from the Working Group on Legal Affairs to support the obligations under the Minamata Convention, which is under the supervision of the Subcommittee on the Minamata Convention.</p> <p>3) Public hearing on the draft Ministerial Regulation stipulating that industrial products in the category of electrical and electronic equipment containing mercury must comply with the relevant standards (revised edition), and potential amendments to the industrial product standard, "Mercury-Added Products – Restriction of the Use of Mercury," Standard No. TIS 3604-2566, if deemed necessary.</p> <p>4) Capacity building and readiness enhancement of testing laboratories for mercury-added products to facilitate the issuance of licenses and certifications.</p> <p>5) Preparation of the Ministerial Regulations Prescribing Industrial Products for Mercury-Added Electrical and Electronic Equipment to Conform to the Standards</p> <p>1.3 Other related information</p> <p>1) TIS 956-2014: Double-Capped Fluorescent Lamps – Safety Specifications. Currently, there are 4 licensed manufacturers, with production data reported. Additionally, there are 14 licensed importers, and records of product imports are still available in the National Single Window (NSW) system.</p> |

| NO. | Mercury-added Products | the need to extend additional exceptions |
|-----|------------------------|--|
| | | <p>2) TIS 2235-2014: Single-Capped Fluorescent Lamps – Safety Specifications (Partial Scope). At present, there is 1 licensed manufacturer, and production data has been reported. Additionally, there are 5 licensed importers, with records of product imports still found in the National Single Window (NSW) system.</p> <p>2. Available information, including in respect of the availability of alternative products and processes that are free of mercury or that involve the consumption of less mercury than the exempt use.</p> <p>2.1 Department of Industrial Works</p> <p>- According to the factory database of the Department of Industrial Works during the period from 2017 to 2024 (as of 11 November 2024), a total of 45 factories were identified as engaging in activities related to <u>the production of electrical switches and fluorescent lamps</u>. Among these, only one factory was found to use mercury as a raw material in the production of fluorescent lamps.</p> <p>- According to the hazardous substance data from the Department of Industrial Works’ notification system for the production or import of hazardous substances, covering the period from 2017 to 2024 (as of 24 October 2024), there have been notifications of mercury importation for the following purposes: (1) production of circuit boards and fluorescent lamps; (2) use as a coating substance inside fluorescent lamps; and (3) testing of electronic-related products. These findings are based on the summary of hazardous substance notifications (Form Wor.Aor. 6) submitted between 2017 and 2024 by operators involved in the production of electrical switches and fluorescent lamps.</p> <p>2.2 Customs Department</p> <p>- Information on the annual import–export volumes, as well as the names of companies or other relevant data concerning mercury-added products in this category, including mercury-free products and products containing mercury in amounts below the exemption thresholds.</p> <p>- Relevant Customs Tariff Codes for Linear Fluorescent Lamps for General Use Are Categorized into Two Groups as Follows:</p> |

| NO. | Mercury-added Products | the need to extend additional exceptions | | | |
|-------------------------|---|--|--------------------------------------|--------------------------|---|
| | | mercury-added product | All customs tariffs related to goods | | Remarks |
| HS2017 (2017 - 2021) | HS2022 (2022 - present) | | | | |
| | | Hot cathode fluorescent lamp | 8539.31.20 8539.31.90 | 8539.31.20 8539.31.90 | 1. Linear fluorescent lamps include both hot cathode types and other variants. 2. The classification of linear fluorescent lamps under customs tariff codes is not determined by wattage. 3. The classification of linear fluorescent lamps under customs tariff codes is not influenced by the type of phosphor or color band. |
| | | other | 8539.39.30 8539.39.90 | 8539.39.40 8539.39.90 | |
| 4. | <p>High pressure mercury vapour lamps (HPMV) for general lighting purposes</p> <p>*A request for a five-year extension from the phase-out date, as specified in Annex A, through 2023.*</p> | <p>1. Report explaining the reasons for the need to extend the exemption request by specifying the activities that have already been carried out, including the activities and plans that have been planned according to the request for an exception as necessary, and specifying the period for which an additional exception is requested (not exceeding 5 years).</p> <p>- Since this product is listed for phase-out in Annex A of the Minamata Convention on Mercury, and under the Industrial Products Standards Act B.E. 2511 (1968) and its amendments, it does not include provisions for regulations that prohibit the production, import, and export of this product (as the product contains mercury as an essential component, and establishing a zero mercury standard would not be scientifically valid). Therefore, an exemption request is necessary to the Secretariat of the Minamata Convention for an additional 5 years. This is due to the need to rely on the results of the study under the "Advanced Minamata Assessment in Thailand" project, which is expected to begin in 2025. Furthermore, discussions will take place within the Working Group on Legal Affairs to prohibit the production, import, and export of high-pressure mercury vapor lamps for general lighting.</p> | | | |

| NO. | Mercury-added Products | the need to extend additional exceptions |
|-----|------------------------|--|
| | | <p>- The development of domestic regulations will be carried out to reduce and phase out the use of mercury in the aforementioned products. This will require mechanisms and oversight from various sectors.</p> <p>2. Available information, including in respect of the availability of alternative products and processes that are free of mercury or that involve the consumption of less mercury than the exempt use.</p> <p>2.1 Department of Industrial Works</p> <p>- According to the factory database of the Department of Industrial Works during the period from 2017 to 2024 (as of 11 November 2024), a total of 45 factories were identified as engaging in activities related to <u>the production of electrical switches and fluorescent lamps</u>. Among these, only one factory was found to use mercury as a raw material in the production of fluorescent lamps.</p> <p>- According to the hazardous substance data from the Department of Industrial Works' notification system for the production or import of hazardous substances, covering the period from 2017 to 2024 (as of 24 October 2024), there have been notifications of mercury importation for the following purposes: (1) production of circuit boards and fluorescent lamps; (2) use as a coating substance inside fluorescent lamps; and (3) testing of electronic-related products. These findings are based on the summary of hazardous substance notifications (Form Wor.Aor. 6) submitted between 2017 and 2024 by operators involved in the production of electrical switches and fluorescent lamps.</p> <p>2.2 Customs Department</p> <p>- Information on the annual import-export volumes, as well as the names of companies or other relevant data concerning mercury-added products in this category, including mercury-free products and products containing mercury in amounts below the exemption thresholds.</p> <p>- The relevant customs tariff codes for the product under HS2017 (B.E. 2560 - 2564) and HS2022 (B.E. 2565 - present) are 8539.32.00.</p> |

| NO. | Mercury-added Products | the need to extend additional exceptions |
|-----|---|--|
| 5. | <p>Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for electronic displays:</p> <p>(a) short length (≤ 500 mm) with mercury content exceeding 3.5 mg per lamp</p> <p>(b) medium length (> 500 mm and $\leq 1,500$ mm) with mercury content exceeding 5 mg per lamp</p> <p>(c) long length ($> 1,500$ mm) with mercury content exceeding 13 mg per lamp</p> <p>*A request for a five-year extension from the phase-out date, as specified in Annex A, through 2023.*</p> | <p>1. Report explaining the reasons for the need to extend the exemption request by specifying the activities that have already been carried out, including the activities and plans that have been planned according to the request for an exception as necessary, and specifying the period for which an additional exception is requested (not exceeding 5 years).</p> <p>Main agency: Thai Industrial Standards Institute (TISI), Ministry of Industry</p> <p>1.1 Implementation progress</p> <p>1) Ministry of Industry Announcement on the determination of industrial product standards for mercury-added product – restriction of the use of mercury B.E. 2567. Standard No. TIS 3604-2023 announced on 29 March 2024 and announced in the Government Gazette, Announcement and General Affairs Edition, Volume 141, Special Part 138, dated 17 May B.E. 2567</p> <p>2) Public Hearing on the Draft Ministerial Regulation Prescribing Industrial Products for Mercury-Added Electrical and Electronic Equipment to Conform to the Standards B.E. The public hearing to be conducted within 60 days of the announcement dated 25 January 2024 (B.E. 2567).</p> <p>3) Notification of the Draft Ministerial Regulation to the World Trade Organization (WTO) on 12 February 2024, Notification Document No. G/TBT/N/THA/727.</p> <p>1.2 Planned Activities for the Additional 5-Year Exemption Period</p> <p>1) The study is currently being conducted within the country to assess the impacts of the legislation regulating the production and import of mercury-added products under the "Advanced Minamata Assessment in Thailand" project. The project is expected to commence in mid-2025 and will have a duration of 2 years.</p> <p>2) Determination of specific customs tariff codes for mercury-added products, utilizing the main operational mechanisms of the Thai Industrial Standards Institute and the Customs Department, in conjunction with supporting mechanisms from the Working Group on Legal Affairs to support the obligations under the Minamata Convention, which is under the supervision of the Subcommittee on the Minamata Convention.</p> |

| NO. | Mercury-added Products | the need to extend additional exceptions |
|-----|------------------------|--|
| | | <p>3) Public hearing on the draft Ministerial Regulation stipulating that industrial products in the category of electrical and electronic equipment containing mercury must comply with the relevant standards (revised edition), and potential amendments to the industrial product standard, “Mercury-Added Products – Restriction of the Use of Mercury,” Standard No. TIS 3604-2566, if deemed necessary.</p> <p>4) Capacity building and readiness enhancement of testing laboratories for mercury-added products to facilitate the issuance of licenses and certifications.</p> <p>5) Preparation of the Ministerial Regulations Prescribing Industrial Products for Mercury-Added Electrical and Electronic Equipment to Conform to the Standards</p> <p>2. Available information, including in respect of the availability of alternative products and processes that are free of mercury or that involve the consumption of less mercury than the exempt use.</p> <p>2.1 Department of Industrial Works</p> <p>- According to the factory database of the Department of Industrial Works during the period from 2017 to 2024 (as of 11 November 2024), a total of 45 factories were identified as engaging in activities related to <u>the production of electrical switches and fluorescent lamps</u>. Among these, only one factory was found to use mercury as a raw material in the production of fluorescent lamps.</p> <p>- According to the hazardous substance data from the Department of Industrial Works’ notification system for the production or import of hazardous substances, covering the period from 2017 to 2024 (as of 24 October 2024), there have been notifications of mercury importation for the following purposes: (1) production of circuit boards and fluorescent lamps; (2) use as a coating substance inside fluorescent lamps; and (3) testing of electronic-related products. These findings are based on the summary of hazardous substance notifications (Form Wor.Aor. 6) submitted between 2017 and 2024 by operators involved in the production of electrical switches and fluorescent lamps.</p> |

| NO. | Mercury-added Products | the need to extend additional exceptions | | | | | | | | | | | | | | | |
|---|--|---|--|--|-----------------------|--------------------------------------|--|---------|-------------------------|----------------------------|---------------------------------------|------------|--------------------------|--|---|------------|------------|
| | | <p>2.2 Customs Department</p> <p>- Information on the annual import–export volumes, as well as the names of companies or other relevant data concerning mercury-added products in this category, including mercury-free products and products containing mercury in amounts below the exemption thresholds.</p> <p>- Customs Tariff Codes Relevant to the Products</p> <table border="1" data-bbox="676 491 2076 836"> <thead> <tr> <th data-bbox="676 491 1037 544" rowspan="2">mercury-added product</th> <th colspan="2" data-bbox="1037 491 1641 544">All customs tariffs related to goods</th> <th data-bbox="1641 491 2076 544" rowspan="2">Remarks</th> </tr> <tr> <th data-bbox="1037 544 1339 639">HS2017 (2017 - 2021)</th> <th data-bbox="1339 544 1641 639">HS2022 (2022 - present)</th> </tr> </thead> <tbody> <tr> <td data-bbox="676 639 1037 735">cold cathode fluorescent lamps (CCFL)</td> <td data-bbox="1037 639 1339 735">8539.39.30</td> <td data-bbox="1339 639 1641 735">8539.39.20 8539.39.40</td> <td data-bbox="1641 639 2076 836" rowspan="2">The dimensions of the fluorescent lamp are not considered a determining factor in its customs tariff classification.</td> </tr> <tr> <td data-bbox="676 735 1037 836">external electrode fluorescent lamps (EEFL)</td> <td data-bbox="1037 735 1339 836">8539.39.90</td> <td data-bbox="1339 735 1641 836">8539.39.90</td> </tr> </tbody> </table> | | | mercury-added product | All customs tariffs related to goods | | Remarks | HS2017 (2017 - 2021) | HS2022 (2022 - present) | cold cathode fluorescent lamps (CCFL) | 8539.39.30 | 8539.39.20 8539.39.40 | The dimensions of the fluorescent lamp are not considered a determining factor in its customs tariff classification. | external electrode fluorescent lamps (EEFL) | 8539.39.90 | 8539.39.90 |
| mercury-added product | All customs tariffs related to goods | | Remarks | | | | | | | | | | | | | | |
| | HS2017 (2017 - 2021) | HS2022 (2022 - present) | | | | | | | | | | | | | | | |
| cold cathode fluorescent lamps (CCFL) | 8539.39.30 | 8539.39.20 8539.39.40 | The dimensions of the fluorescent lamp are not considered a determining factor in its customs tariff classification. | | | | | | | | | | | | | | |
| external electrode fluorescent lamps (EEFL) | 8539.39.90 | 8539.39.90 | | | | | | | | | | | | | | | |
| 6. | <p>The following non-electronic measuring devices except non-electronic measuring devices installed in large-scale equipment or those used for high-precision measurement, where no suitable mercury-free alternative is available:</p> <ul style="list-style-type: none"> (a) barometers; (b) hygrometers; (c) manometers; | <p>1. Report explaining the reasons for the need to extend the exemption request by specifying the activities that have already been carried out, including the activities and plans that have been planned according to the request for an exception as necessary, and specifying the period for which an additional exception is requested (not exceeding 5 years).</p> <p><u>In the case of non-electronic measuring devices (medical devices)</u></p> <p>Main agency: Food and Drug Administration, Ministry of Public Health</p> <p>1.1 Implementation progress</p> <p>The Medical Device Control Division has established guidelines to prohibit, where possible, the manufacture, import and export of non-electronic measuring devices that are classified as medical devices under Section 4 of the Medical Devices Act B.E. 2551 (2008) and its amendments as set out in the Medical Devices Act (No. 2) B.E. 2562 (2019). This includes mercury thermometers and mercury sphygmomanometers.</p> | | | | | | | | | | | | | | | |

| NO. | Mercury-added Products | the need to extend additional exceptions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|-----------------------|------|--|--|--|------|------|------|------|------|---|---|---|--|--|--|--|---|---|--|--|--|--|--|--|--|--|--|---|--|---|--|--|--|---|--|--|---|---|--|
| | <p>(d) thermometers; (e) sphygmomanometers.</p> <p>*A request for a five-year extension from the phase-out date, as specified in Annex A, through 2023.*</p> | <p>1.2 Future operational guidelines (in accordance with the additional 5-year exemption period)</p> <p>The cessation of the manufacture, import or sale of medical devices related to non-electronic measuring devices except non-electronic measuring devices installed in large-scale equipment or those used for high-precision measurement, where no suitable mercury-free alternative is available — It is necessary to collect relevant data, provide public communication and raise awareness among manufacturers, medical device users, and patients; prepare for the procurement of alternative materials; allocate a public health budget; and draft regulations and gather feedback from stakeholders across all sectors. Additionally, it is important to ensure understanding of these measures among both manufacturers and consumers. As a result, an additional 5-year exemption period is requested, from January 1, 2026, to December 31, 2030.</p> <p>For medical devices listed under the Medical Devices Act B.E. 2551 (2008) and as amended by the Medical Devices Act (No. 2) B.E. 2562 (2019), namely mercury-containing thermometers and sphygmomanometers, an action plan has been established to accelerate the amendment of the relevant subordinate legislation in the period 2026–2030 as follows:</p> <table border="1" data-bbox="676 842 2069 1353"> <thead> <tr> <th data-bbox="676 842 1491 938" rowspan="2">Major Measures / Implementation Activities</th> <th colspan="5" data-bbox="1491 842 2069 890">Implementation Period</th> </tr> <tr> <th data-bbox="1491 890 1608 938">2026</th> <th data-bbox="1608 890 1724 938">2027</th> <th data-bbox="1724 890 1841 938">2028</th> <th data-bbox="1841 890 1957 938">2029</th> <th data-bbox="1957 890 2069 938">2030</th> </tr> </thead> <tbody> <tr> <td data-bbox="676 938 1491 1034">1. Conduct a study and compile relevant data concerning thermometers and sphygmomanometers.</td> <td data-bbox="1491 938 1608 1034">■</td> <td data-bbox="1608 938 1724 1034">■</td> <td data-bbox="1724 938 1841 1034"></td> <td data-bbox="1841 938 1957 1034"></td> <td data-bbox="1957 938 2069 1034"></td> </tr> <tr> <td data-bbox="676 1034 1491 1129">2. Dissemination of Information and Notification to Stakeholders to Facilitate the Transition to Alternative Materials</td> <td data-bbox="1491 1034 1608 1129">■</td> <td data-bbox="1608 1034 1724 1129">■</td> <td data-bbox="1724 1034 1841 1129"></td> <td data-bbox="1841 1034 1957 1129"></td> <td data-bbox="1957 1034 2069 1129"></td> </tr> <tr> <td data-bbox="676 1129 1491 1257">3. Amendment of relevant regulations to enforce a ban on the manufacture, importation, and exportation of medical devices, including mercury thermometers and sphygmomanometers.</td> <td data-bbox="1491 1129 1608 1257"></td> <td data-bbox="1608 1129 1724 1257"></td> <td data-bbox="1724 1129 1841 1257"></td> <td data-bbox="1841 1129 1957 1257"></td> <td data-bbox="1957 1129 2069 1257"></td> </tr> <tr> <td data-bbox="676 1257 1491 1305">3.1 Formulate the official notification</td> <td data-bbox="1491 1257 1608 1305"></td> <td data-bbox="1608 1257 1724 1305">■</td> <td data-bbox="1724 1257 1841 1305"></td> <td data-bbox="1841 1257 1957 1305"></td> <td data-bbox="1957 1257 2069 1305"></td> </tr> <tr> <td data-bbox="676 1305 1491 1353">3.2 Conduct public consultations with relevant stakeholders</td> <td data-bbox="1491 1305 1608 1353"></td> <td data-bbox="1608 1305 1724 1353"></td> <td data-bbox="1724 1305 1841 1353">■</td> <td data-bbox="1841 1305 1957 1353">■</td> <td data-bbox="1957 1305 2069 1353"></td> </tr> </tbody> </table> | Major Measures / Implementation Activities | Implementation Period | | | | | 2026 | 2027 | 2028 | 2029 | 2030 | 1. Conduct a study and compile relevant data concerning thermometers and sphygmomanometers. | ■ | ■ | | | | 2. Dissemination of Information and Notification to Stakeholders to Facilitate the Transition to Alternative Materials | ■ | ■ | | | | 3. Amendment of relevant regulations to enforce a ban on the manufacture, importation, and exportation of medical devices, including mercury thermometers and sphygmomanometers. | | | | | | 3.1 Formulate the official notification | | ■ | | | | 3.2 Conduct public consultations with relevant stakeholders | | | ■ | ■ | |
| Major Measures / Implementation Activities | Implementation Period | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2026 | 2027 | 2028 | 2029 | 2030 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Conduct a study and compile relevant data concerning thermometers and sphygmomanometers. | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Dissemination of Information and Notification to Stakeholders to Facilitate the Transition to Alternative Materials | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. Amendment of relevant regulations to enforce a ban on the manufacture, importation, and exportation of medical devices, including mercury thermometers and sphygmomanometers. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.1 Formulate the official notification | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.2 Conduct public consultations with relevant stakeholders | | | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| NO. | Mercury-added Products | the need to extend additional exceptions | | | | | | | | | | | | | | | | |
|------------------------|--|---|--|--|--|--|--|------------------------|-------------|--|---------|--------|-------------------|-----------|--|--|-----------------------------|--|
| | | 3.3 Submit the (draft) notification for consideration by the working group, the subcommittee and the committee. | | | | | | | | | | | | | | | | |
| | | 4. Propose the notification for official signature | | | | | | | | | | | | | | | | |
| | | 5. Promulgate the notification in the Royal Gazette | | | | | | | | | | | | | | | | |
| | <p>Note: The planned implementation period can be changed as required.</p> <p><u>In the case of non-electronic measuring devices (not classified as medical devices)</u></p> <p>It is necessary to request an additional five-year exemption from the Secretariat of the Minamata Convention, as the decision must be based on the findings from the domestic study to be conducted under the "Advanced Minamata Assessment in Thailand" project, which is expected to commence in mid-2025 and span two years. In parallel, consultations within the Legal Working Group are required to develop appropriate regulatory measures for the prohibition of the manufacture, import, and export of non-electronic measuring instruments (excluding medical devices).</p> <p>The development of domestic regulations to effectively reduce and eventually eliminate the use of mercury in such products, which requires mechanisms and oversight from all relevant sectors.</p> <p>2. Available information, including in respect of the availability of alternative products and processes that are free of mercury or that involve the consumption of less mercury than the exempt use.</p> <p>2.1 Food and Drug Administration</p> <p>Product registration information for Thermometers --Sphygmomanometers as of October 28, 2024</p> <table border="1" data-bbox="775 1098 2056 1331"> <thead> <tr> <th data-bbox="775 1098 1167 1193" rowspan="2">Electronic Thermometer</th> <th colspan="2" data-bbox="1167 1098 2056 1145">Thermometer</th> </tr> <tr> <th data-bbox="1167 1145 1626 1193">Mercury</th> <th data-bbox="1626 1145 2056 1193">อื่น ๆ</th> </tr> </thead> <tbody> <tr> <td data-bbox="775 1193 1167 1289">123 registrations</td> <td data-bbox="1167 1193 1626 1289">Not found</td> <td data-bbox="1626 1193 2056 1289">2 registrations (gallium-alloy) 2 registrations (Sticker)</td> </tr> <tr> <td data-bbox="775 1289 1167 1331"></td> <td colspan="2" data-bbox="1167 1289 2056 1331">1 registration has expired.</td> </tr> </tbody> </table> | | | | | | | Electronic Thermometer | Thermometer | | Mercury | อื่น ๆ | 123 registrations | Not found | 2 registrations (gallium-alloy) 2 registrations (Sticker) | | 1 registration has expired. | |
| Electronic Thermometer | Thermometer | | | | | | | | | | | | | | | | | |
| | Mercury | อื่น ๆ | | | | | | | | | | | | | | | | |
| 123 registrations | Not found | 2 registrations (gallium-alloy) 2 registrations (Sticker) | | | | | | | | | | | | | | | | |
| | 1 registration has expired. | | | | | | | | | | | | | | | | | |

| NO. | Mercury-added Products | the need to extend additional exceptions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|-----------------------------|-------------------------|-----------------------|--|---------|-------------------------|---|--|--|-------------------------------|-------------|--|------------|-----------------|------------|---|--|--|-------------|------------|------------|-----------------|------------|---|--|--|---|--|--|--|--|--|-------------|------------|------------|
| | | <table border="1"> <thead> <tr> <th data-bbox="660 248 1167 347">Electronic Sphygmomanometer</th> <th colspan="2" data-bbox="1167 248 2092 300">Manual Sphygmomanometer</th> </tr> <tr> <td data-bbox="660 347 1167 531" rowspan="2">6 registrations</td> <th data-bbox="1167 300 1630 347">Mercury</th> <th data-bbox="1630 300 2092 347">อื่น ๆ</th> </tr> </thead> <tbody> <tr> <td data-bbox="1167 347 1630 483">1 registration MAHACHAK INTERNATIONAL COMPANY LIMITED</td> <td data-bbox="1630 347 2092 483">2 registrations (Aneroid)</td> </tr> <tr> <td data-bbox="660 483 1167 531"></td> <td data-bbox="1167 483 1630 531">14 registrations have expired</td> <td data-bbox="1630 483 2092 531"></td> </tr> </tbody> </table> | Electronic Sphygmomanometer | Manual Sphygmomanometer | | 6 registrations | Mercury | อื่น ๆ | 1 registration MAHACHAK INTERNATIONAL COMPANY LIMITED | 2 registrations (Aneroid) | | 14 registrations have expired | | <p>2.2 Customs Department</p> <ul style="list-style-type: none"> - Information on the annual import–export volumes, as well as the names of companies or other relevant data concerning mercury-added products in this category, including mercury-free products and products containing mercury in amounts below the exemption thresholds. - Customs Tariff Codes Relevant to the Products | | | | | | | | | | | | | | | | | | | | | | | |
| Electronic Sphygmomanometer | Manual Sphygmomanometer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 registrations | Mercury | อื่น ๆ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 registration MAHACHAK INTERNATIONAL COMPANY LIMITED | 2 registrations (Aneroid) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 registrations have expired | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th data-bbox="660 758 1361 898" rowspan="2">mercury-added product</th> <th colspan="2" data-bbox="1361 758 2092 805">All customs tariffs related to goods and</th> </tr> <tr> <th data-bbox="1361 805 1722 898">HS2017 (2017 - 2021)</th> <th data-bbox="1722 805 2092 898">HS2022 (2022 - present)</th> </tr> </thead> <tbody> <tr> <td colspan="3" data-bbox="660 898 2092 946">(a) Barometers are instruments for measuring atmospheric pressure.</td> </tr> <tr> <td data-bbox="660 946 1361 994">1. Electric</td> <td data-bbox="1361 946 1722 994">9025.80.20</td> <td data-bbox="1722 946 2092 994" rowspan="2">9025.80.00</td> </tr> <tr> <td data-bbox="660 994 1361 1042">2. Non-electric</td> <td data-bbox="1361 994 1722 1042">9025.80.30</td> </tr> <tr> <td colspan="3" data-bbox="660 1042 2092 1090">(b) Hygrometers are instruments for measuring the moisture content of air or other gases.</td> </tr> <tr> <td data-bbox="660 1090 1361 1137">1. Electric</td> <td data-bbox="1361 1090 1722 1137">9025.80.20</td> <td data-bbox="1722 1090 2092 1137" rowspan="2">9025.80.00</td> </tr> <tr> <td data-bbox="660 1137 1361 1185">2. Non-electric</td> <td data-bbox="1361 1137 1722 1185">9025.80.30</td> </tr> <tr> <td colspan="3" data-bbox="660 1185 2092 1233">(c) Manometers are instruments used to measure the pressure of liquids or gases in an enclosed space.</td> </tr> <tr> <td colspan="3" data-bbox="660 1233 2092 1281">They are divided into 2 types as follows:</td> </tr> <tr> <td colspan="3" data-bbox="660 1281 2092 1329"><u>Group 1: Pressure gauges for motor vehicles</u></td> </tr> <tr> <td data-bbox="660 1329 1361 1364">1. Electric</td> <td data-bbox="1361 1329 1722 1364">9026.20.10</td> <td data-bbox="1722 1329 2092 1364">9026.20.50</td> </tr> </tbody> </table> | | | mercury-added product | All customs tariffs related to goods and | | HS2017 (2017 - 2021) | HS2022 (2022 - present) | (a) Barometers are instruments for measuring atmospheric pressure. | | | 1. Electric | 9025.80.20 | 9025.80.00 | 2. Non-electric | 9025.80.30 | (b) Hygrometers are instruments for measuring the moisture content of air or other gases. | | | 1. Electric | 9025.80.20 | 9025.80.00 | 2. Non-electric | 9025.80.30 | (c) Manometers are instruments used to measure the pressure of liquids or gases in an enclosed space. | | | They are divided into 2 types as follows: | | | <u>Group 1: Pressure gauges for motor vehicles</u> | | | 1. Electric | 9026.20.10 | 9026.20.50 |
| mercury-added product | All customs tariffs related to goods and | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | HS2017 (2017 - 2021) | HS2022 (2022 - present) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (a) Barometers are instruments for measuring atmospheric pressure. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Electric | 9025.80.20 | 9025.80.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Non-electric | 9025.80.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (b) Hygrometers are instruments for measuring the moisture content of air or other gases. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Electric | 9025.80.20 | 9025.80.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Non-electric | 9025.80.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (c) Manometers are instruments used to measure the pressure of liquids or gases in an enclosed space. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| They are divided into 2 types as follows: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>Group 1: Pressure gauges for motor vehicles</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Electric | 9026.20.10 | 9026.20.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| NO. | Mercury-added Products | the need to extend additional exceptions | | |
|-----|------------------------|---|------------|------------|
| | | 2. Non-electric | 9026.20.20 | |
| | | <u>Group 2:</u> Pressure measuring devices, excluding pressure gauges for motor vehicles | | |
| | | 1. Electric | 9026.20.30 | 9026.20.90 |
| | | 2. Non-electric | 9026.20.40 | |
| | | (d) Thermometers refer to contact-type temperature measuring devices, which are divided into two groups as follows: | | |
| | | <u>Group 1:</u> Thermometers not incorporated with hydrometers or similar instruments, barometers, hygrometers, or psychrometers. | | |
| | | 1. Liquid-in-glass thermometers designed for direct reading, not combined with any other instruments. | 9025.11.00 | 9025.11.00 |
| | | 2. Temperature gauge for electric vehicles that are not integrated with other equipment. | 9025.19.11 | 9025.19.11 |
| | | 3. Electrical thermometers, excluding temperature gauges for electric vehicles, not incorporated with any other instruments. | 9025.19.19 | 9025.19.19 |
| | | 4. Non-electrical thermometers, excluding liquid-filled direct-reading types, not combined with other devices. | 9025.19.20 | 9025.19.20 |
| | | <u>Group 2:</u> Thermometers incorporated with hydrometers and similar instruments, barometers, hygrometers, or psychrometers. | | |
| | | 1. Electric | 9025.80.20 | 9025.80.00 |
| | | 2. Non-electric | 9025.80.30 | |
| | | (e) sphygmomanometers | 9018.19.00 | 9018.19.00 |

| NO. | Mercury-added Products | the need to extend additional exceptions |
|-----|------------------------|--|
| | | <p>The classification of customs tariff codes for the products listed above, under the Harmonized System, is primarily based on their intended use, without regard to the characteristics of the products such as mercury content, the use of electronic systems, installation requirements, accuracy, or the availability of suitable alternative devices or tools.</p> |

3. Planned or Ongoing Activities to Develop Environmentally Friendly Methods for Mercury Waste Collection and Disposal

| Department of Industrial Works (Production Process) | Department of Health (End-of-Life Mercury-Added Products) |
|--|--|
| <p>The Department of Industrial Works oversees the management of waste from manufacturers of products listed in items 1–5, as specified in the Ministry of Industry’s Notification on the Disposal of Waste or Unused Materials B.E. 2566 (2023) and its amendments. The regulation includes codes for types and categories of waste or unused materials that contain or are contaminated with mercury or mercury compounds, as follows:</p> <p>1) Code 16 02: Wastes from electrical and electronic equipment</p> <ul style="list-style-type: none"> - Code 16 02 13 HM: Discarded electrical equipment containing hazardous components not covered under Codes 16 02 09 to 16 02 12, such as monitors, accumulators, mercury switches (e.g., discarded equipment containing hazardous components such as accumulators and batteries mentioned in Code 16 06 and marked as hazardous; mercury switches, glass from cathode ray tubes, and other activated glass, etc.) <p>2) Code 16 06: Batteries and accumulators</p> <ul style="list-style-type: none"> - Code 16 06 03 HA: Mercury-containing batteries | <p><u>Progress:</u></p> <p>The Department of Health has developed legislation concerning the management of hazardous or toxic municipal waste under the Public Health Act B.E. 2535 (1992), including the Ministerial Regulation on the Management of Hazardous or Toxic Municipal Waste B.E. 2563 (2020) and six related notifications, as follows:</p> <ol style="list-style-type: none"> 1) Notification on Curriculum and Training Period for Safe Management of Hazardous or Toxic Municipal Waste for Responsible Officials, B.E. 2564 (2021) 2) Notification on Curriculum and Training Period for Safe Management of Hazardous or Toxic Municipal Waste for Workers, B.E. 2564 (2021) 3) Notification on Control Measures for the Transportation of Hazardous or Toxic Municipal Waste, B.E. 2565 (2022) 4) Notification on Classification of Medicines and Psychotropic Substances Used in Medical Treatment as Hazardous or Toxic Municipal Waste, B.E. 2565 (2022) 5) Notification on the Location and Area Requirements for Incineration Facilities for Hazardous or Toxic Municipal Waste, and Sufficient Lighting and Ventilation within the Building for Operational Safety, B.E. 2566 (2023) 6) Notification on Safe Landfill Sites and Measures to Prevent and Mitigate Impacts on Public Health and the Environment, B.E. 2566 (2023) <p><u>Problems and Obstacles:</u></p> <p>Smaller local administrative organizations still lack the readiness in terms of both personnel knowledge and capacity to manage hazardous or toxic municipal waste.</p> |

| Department of Industrial Works (Production Process) | Department of Health (End-of-Life Mercury-Added Products) |
|---|--|
| | <p><u>Future Plans:</u></p> <p>To push forward a draft Ministerial Regulation on Service Fees for Issuing Permits, Certificates of Notification, and Services for Waste or Municipal Waste Management (version...) B.E. (which has been approved by the Public Health Committee at its 147-3/2567 meeting). This would allow local administrative organizations to collect fees from various waste generators and have a budget for effective management.</p> |