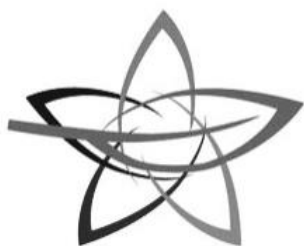




**Food and Agriculture  
Organization of the  
United Nations**



## **PIC CIRCULAR XLIX (49) – June 2019**



### **ROTTERDAM CONVENTION**

**SECRETARIAT OF THE ROTTERDAM CONVENTION  
ON THE PRIOR INFORMED CONSENT PROCEDURE  
FOR CERTAIN HAZARDOUS CHEMICALS AND PESTICIDES  
IN INTERNATIONAL TRADE**

# PIC CIRCULAR XLIX (49) – June 2019

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## INTRODUCTION

### 1. THE PURPOSE OF THE PIC CIRCULAR

The Rotterdam Convention on the Prior Informed Consent Procedure (PIC) for Certain Hazardous Chemicals and Pesticides in International Trade entered into force on 24 February 2004.

The purpose of the PIC Circular is to provide all Parties, through their designated national authorities, with the information required in Articles 4, 5, 6, 7, 10, 11, 13 and 14 of the Convention. The decision guidance documents on relevant chemicals dispatched to Parties in line with paragraph 3 of Article 7 are sent out in a separate communication.

The PIC Circular is published every six months, in June and December. The present Circular contains information related to and received during the period from **1 November 2018 to 30 April 2019**. Information received after 30 April 2019 will be included in the next PIC Circular.

Designated national authorities are requested to review the information relating to their countries and communicate any inconsistencies, errors or omissions to the Secretariat.

### 2. IMPLEMENTATION OF THE ROTTERDAM CONVENTION

#### 2.1 Designated national authorities

In line with paragraph 3 of Article 4, Parties shall notify the Secretariat on designations of or changes to designated national authorities. A register of designated national authorities is distributed together with the present PIC Circular and is also available on the Rotterdam Convention website.<sup>1</sup>

#### 2.2 Notifications of final regulatory action

Parties that have adopted final regulatory actions shall notify the Secretariat within the timeframes established in paragraphs 1 and 2 of Article 5.

**Appendix I** of the PIC Circular contains a synopsis of all notifications of final regulatory action received from Parties since the last PIC Circular, in line with paragraphs 3 and 4 of Article 5 of the Convention. It contains summaries of notifications of final regulatory action that have been received by the Secretariat and verified to contain the information required by Annex I to the Convention (Part A), information regarding notifications which do not contain all the information (Part B), as well as those notifications that are still under verification by the Secretariat (Part C).

**Appendix V** contains a list of all the notifications of final regulatory action for chemicals not listed in Annex III, received during the interim PIC procedure and the current PIC procedure (September 1998 to 30 April 2019).

A database of notifications of final regulatory action submitted by Parties, including those for the chemicals listed in Annex III to the Convention, verified as containing the information required by Annex I to the Convention is also available on the Convention website.<sup>2</sup>

A synopsis of all notifications received under the original PIC procedure, which is before the adoption of the Convention in 1998, was published in **PIC Circular X** in December 1999.<sup>3</sup> These notifications however do not meet the requirements of Annex I because the information requirements for notifications under the original PIC procedure were different. Although Parties are not obliged to resubmit

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<sup>1</sup> <http://www.pic.int/tabid/3282/Default.aspx>.

<sup>2</sup> <http://www.pic.int/tabid/1368/language/en-US/Default.aspx>.

<sup>3</sup> <http://www.pic.int/tabid/1168/language/en-US/Default.aspx>.

notifications submitted under the original PIC procedure,<sup>4</sup> they may wish to consider doing so for those chemicals not presently listed in Annex III if sufficient supporting information is available.

To facilitate the submission of notifications, a **form for notification of final regulatory action to ban or severely restrict a chemical** and **instructions on how to complete it** are available on the Convention website.<sup>5</sup>

## 2.3 Proposals for the listing of severely hazardous pesticide formulations

In line with paragraph 1 of Article 6, any Party that is a developing country or a country with an economy in transition and that is experiencing problems caused by a severely hazardous pesticide formulation under conditions of use in its territory, may propose to the Secretariat the listing of the severely hazardous pesticide formulation in Annex III.

**Appendix II** of the PIC Circular contains summaries of such proposals, which the Secretariat has verified contain the information required by part 1 of Annex IV to the Convention.

To facilitate the submission of proposals, an **incident report form for human health incidents involving severely hazardous pesticide formulations** and an **incident report form for environmental incidents involving severely hazardous pesticide formulations** are available on the Convention website.<sup>6</sup>

## 2.4 Chemicals subject to the PIC procedure

**Appendix III** of the PIC Circular lists all the chemicals that are currently listed in Annex III to the Convention and subject to the PIC procedure, their categories (pesticide, industrial and severely hazardous pesticide formulation) and the date of first communication of the corresponding decision guidance document.

The ninth meeting of the Conference of the Parties (COP-9) to the Rotterdam Convention, held from 29 April to 10 May 2019 in Geneva, Switzerland, decided to amend Annex III to list two new chemicals, making them subject to the prior Informed Consent Procedure and approving the related Decision Guidance Documents:

Chemical name	CAS No.	Category	Decision No.
Phorate	298-02-2	Pesticide	RC-9/4
Hexabromocyclododecane	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	Industrial	RC-9/3

The amendments shall enter into force for all Parties on 16 September 2019.

At its ninth meeting, the Conference of the Parties deferred to its tenth meeting consideration of whether to include acetochlor, carbosulfan, chrysotile asbestos, fenthion (ultra-low volume (ULV) formulations at or above 640 g active ingredient/L) and liquid formulations (emulsifiable concentrate and soluble concentrate) containing paraquat dichloride at or above 276 g/L, corresponding to paraquat ion at or above 200 g/L. By decision RC-9/5 on acetochlor, the Conference of the Parties decided that the requirements set out in Article 5 of the Convention as well as the requirements set out in paragraph 1 and the first sentence of paragraph 2 of Article 7, on the process of listing in Annex III to the Convention,

<sup>4</sup> Article 5, paragraph 2 of the Rotterdam Convention.

<sup>5</sup> <http://www.pic.int/tabid/1182/language/en-US/Default.aspx>.

<sup>6</sup> <http://www.pic.int/tabid/1192/language/en-US/Default.aspx>.

have been met for acetochlor. Further information on these chemicals can be found on the Rotterdam Convention website, in the section “Chemicals recommended for listing” under “The Convention” tab.<sup>7</sup>

Further, the Conference of the Parties in its decision RC-9/7 adopted a new Annex VII on procedures and mechanisms on compliance with the Rotterdam Convention. The text of this Annex is being finalized - following communication of the amendment by the depositary, the text of the latest amendments will be circulated to Parties and made available on the Convention website.

## **2.5 Information exchange on exports and export notifications**

Article 12 and Annex V to the Convention set out the provisions and information requirements related to export notifications. When a chemical that is banned or severely restricted by a Party is exported from its territory, that Party shall provide an export notification to the importing Party, which shall include the information in Annex V. The importing Party has the obligation to acknowledge receipt of the first export notification received after the adoption of the final regulatory action.

To assist Parties in meeting their obligations under the Convention, a **standard form for export notification** and **instructions on how to complete it** are available on the Convention website.<sup>8</sup>

The Conference of the Parties, at its ninth meeting recalled decision RC-7/2 on the proposal on ways of exchanging information on exports and export notifications and encouraged Parties to provide information on their implementation of paragraph 2 of Article 11, and Articles 12 and 14 of the Convention by submitting responses to the periodic questionnaire on the implementation of those Articles.

## **2.6 Information to accompany exported chemicals**

In accordance with paragraph 1 of Article 13, the World Customs Organization has assigned specific Harmonized System customs codes to the individual chemicals or groups of chemicals listed in Annex III to the Convention. These codes entered into force on 1 January 2007. For the chemicals listed in Annex III after 2011, Harmonized System codes will be assigned by the World Customs Organization. A table containing this information is available on the Convention website.<sup>9</sup>

If a Harmonized System customs code has been assigned to a chemical listed in Annex III, Parties shall require that the shipping document carries this assigned code when the chemical is exported.

## **2.7 Information on responses concerning import of chemicals listed in Annex III to the Convention**

In accordance with paragraphs 2 and 4 of Article 10, each Party shall transmit to the Secretariat, as soon as possible, and in any event no later than nine months after the date of dispatch of the decision guidance document, a response concerning the future import of the chemical concerned. If a Party modifies this response, the Party shall forthwith submit the revised response to the Secretariat. The response shall consist of either a final decision or an interim response.

Paragraph 7 of Article 10 provides that, each new Party shall, no later than the date of entry into force of the Convention for that Party, transmit to the Secretariat import responses with respect to each chemical listed in Annex III to the Convention.

**Appendix IV** includes an overview of import responses received since the last PIC Circular. All import responses received, including a description of the legislative or administrative measures on which the

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<sup>7</sup> <http://www.pic.int/tabid/1185/language/en-US/Default.aspx>.

<sup>8</sup> <http://www.pic.int/tabid/1365/language/en-US/Default.aspx>.

<sup>9</sup> <http://www.pic.int/tabid/1159/language/en-US/Default.aspx>.

decisions have been based, are available on the Convention website.<sup>10</sup> Information on any cases of failure to transmit a response is also available.

As at 30 April 2019, the following Parties have submitted import responses for all 50 chemicals listed in Annex III to the Convention: Albania, Australia, Burkina Faso, Cabo Verde, Cameroon, Canada, China, Cook Islands, Equatorial Guinea, El Salvador, European Union (on behalf of its 28 member States), Guinea Bissau, Guyana, Mauritius, Montenegro, North Macedonia, Norway, Panama, Senegal, Serbia and Switzerland. 111 Parties have not yet provided import responses for one or more of the chemicals listed in Annex III to the Convention. Of these, the following 11 Parties have failed to provide any import responses: Afghanistan, Botswana, Djibouti, Maldives, Marshall Islands, Namibia, Saint Vincent and the Grenadines, Sierra Leone, Somalia, State of Palestine and Vanuatu.

To facilitate the submission of responses regarding import, a **form for import response and instructions on how to complete it** are available on the Convention website.<sup>11</sup>

## **2.8 Information on chemicals for which the Conference of the Parties has yet to take a final decision**

The Conference of the Parties, in its decisions RC-3/3, RC-4/4, RC-6/8, RC-8/6, RC-8/7 and RC-9/5 encouraged Parties to make use of all information available on the following chemicals, to assist others, in particular developing countries and countries with economies in transition, to make informed decisions regarding their import and management and to inform other Parties of those decisions using the information exchange provisions in Article 14: acetochlor; carbosulfan; chrysotile asbestos; fenthion (ultra-low volume (ULV) formulations at or above 640 g active ingredient/L) and liquid formulations (emulsifiable concentrate and soluble concentrate) containing paraquat dichloride at or above 276 g/L, corresponding to paraquat ion at or above 200 g/L.

In line with these decisions and paragraph 1 of Article 14, **Appendix VI** of the PIC Circular contains information on chemicals recommended by the Chemical Review Committee for listing in Annex III but for which the Conference of the Parties has yet to take a final decision.

## **2.9 Information on transit movements**

As outlined in paragraph 5 of Article 14, any Party requiring information on transit movements through its territory of chemicals listed in Annex III may report its need to the Secretariat, which shall inform all Parties accordingly.

Since the last PIC Circular, no Party has reported to the Secretariat its need for information on transit movements through its territory of Annex III chemicals.

# **3. ADDITIONAL INFORMATION**

## **3.1 Information on the status of ratification of the Rotterdam Convention**

As at 30 April 2019 there were 161 Parties to the Rotterdam Convention.<sup>12</sup> As informed in the PIC Circular XLVIII (48), Vanuatu became the 161<sup>st</sup> Party on 14 January 2019. Information on Parties for whom the Convention entered into force after 30 April 2019 will be reported in the next PIC Circular.

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<sup>10</sup> <http://www.pic.int/tabid/1370/language/en-US/Default.aspx>.

<sup>11</sup> <http://www.pic.int/tabid/1165/language/en-US/Default.aspx>.

<sup>12</sup> <http://www.pic.int/tabid/1072/language/en-US/Default.aspx>.

### 3.2 Documents relevant to the implementation of the Rotterdam Convention

The following documents relevant to the implementation of the Convention are available on the Convention website:<sup>13</sup>

- Text of the Convention - Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade (*Arabic, Chinese, English, French, Russian, Spanish*);<sup>14</sup>
- Decision guidance documents for each of the chemicals listed in Annex III to the Convention (*English, French, Spanish*);<sup>15</sup>
- Form and instructions for notification of final regulatory action to ban or severely restrict a chemical (*English, French, Spanish*);<sup>5</sup>
- Form and instructions for import responses (*English, French, Spanish*);<sup>11</sup>
- Form and instructions for reporting human health incidents and environmental incidents relating to severely hazardous pesticide formulations (*English, French, Spanish*);<sup>6</sup>
- Export notification form and instructions (*English, French, Spanish*);<sup>7</sup>
- Form for notification of designation of contacts (*English, French, Spanish*);<sup>16</sup>
- All PIC Circulars (*English, French, Spanish*);<sup>3</sup>
- Register of designated national authorities for the Rotterdam Convention (*English*).<sup>1</sup>

### 3.3 Resource Kit of information on the Rotterdam Convention

The Resource Kit<sup>17</sup> is a collection of publications containing information on the Rotterdam Convention. It has been developed with a range of end-users in mind, including the public, designated national authorities and stakeholders involved in the implementation of the Convention. It includes elements to assist in awareness-raising activities and detailed technical information and training materials aimed at facilitating implementation of the Convention.

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<sup>13</sup> <http://www.pic.int/>.

<sup>14</sup> <http://www.pic.int/tabid/1048/language/en-US/Default.aspx>. A further compilation including the amendments adopted by the Conference of the Parties in May 2019 is being prepared and will be made available on the Convention website in due course.

<sup>15</sup> <http://www.pic.int/tabid/2413/language/en-US/Default.aspx>.

<sup>16</sup> <http://www.pic.int/tabid/3285/language/en-US/Default.aspx>.

<sup>17</sup> <http://www.pic.int/tabid/1064/language/en-US/Default.aspx>.

**APPENDIX I****SYNOPSIS OF NOTIFICATIONS OF FINAL REGULATORY ACTION  
RECEIVED SINCE THE LAST PIC CIRCULAR**

This appendix consists of three parts:

**Part A: Summary of notifications of final regulatory action that have been verified as containing all the information required by Annex I to the Convention**

Notifications of final regulatory action that have been verified as containing all the information required in Annex I to the Convention, received between 1 November 2018 and 30 April 2019.

**Part B: Notifications of final regulatory action that have been verified as not containing all the information required by Annex I to the Convention**

Notifications of final regulatory action that have been verified as not containing all the information required by Annex I to the Convention, received between 1 November 2018 and 30 April 2019.

**Part C: Notifications of final regulatory action still under verification**

Notifications of final regulatory action that have been received by the Secretariat for which the verification process has not yet been completed.

The information is also available on the Convention website.<sup>18</sup>

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<sup>18</sup> <http://www.pic.int/tabid/1368/language/en-US/Default.aspx>.



**Synopsis of notifications of final regulatory action received since the last PIC Circular****PART A****SUMMARY OF NOTIFICATIONS OF FINAL REGULATORY ACTION THAT HAVE BEEN VERIFIED AS CONTAINING ALL THE INFORMATION REQUIRED BY ANNEX I TO THE CONVENTION****BOSNIA AND HERZEGOVINA**

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**Common Name(s):** Acetochlor

**CAS number(s):** 34256-82-1

**Chemical Name:** 2-chloro-N-(ethoxymethyl)-N-(2-ethyl-6-methylphenyl)acetamide

**Final regulatory action has been taken for the category:** Pesticide

**Final regulatory action:** The chemical is banned.

**Use or uses prohibited by the final regulatory action:** All application as plant protection product.

**The final regulatory action was based on a risk or hazard evaluation:** No

**Summary of the final regulatory action:** This Decision prohibits the registration, import, trade, or use of active substances and PPPs containing active substances in Annex 1 which is an integral part of this Decision and their use and trade is prohibited in the European Union.

**The reasons for the final regulatory action were relevant to:** Human health and environment

**Date of entry into force of the final regulatory action:** 24/06/2009

**CANADA**

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**Common Name(s):** Asbestos

**CAS number(s):** 12001-28-4, 12001-29-5, 12172-73-5, 1332-21-4, 77536-66-4, 77536-67-5, 77536-68-6

**Group Members:** Asbestos, Crocidolite asbestos, Chrysotile (white asbestos), Amosite asbestos, Anthophyllite asbestos, Actinolite, asbestos, Tremolite asbestos

**Chemical Name:** Asbestos, including: Actinolite, Amosite, Anthophyllite, Chrysotile, Crocidolite and Tremolite

**Final regulatory action has been taken for the category:** Industrial

**Final regulatory action:** The chemical is severely restricted.

**Use or uses prohibited by the final regulatory action:** The *Prohibition of Asbestos and Products Containing Asbestos Regulations* (the Regulations) prohibit the import, sale, and use of processed asbestos fibres. The Regulations also prohibit the manufacture, import, sale, and use of products containing processed asbestos fibres and of consumer products containing naturally occurring asbestos in greater than trace amounts, with a limited number of exclusions listed below.

The related amendments to the *Export of Substances on the Export Control List Regulations* prohibit exports of all forms of asbestos, whether or not it is contained in a product, with the exceptions listed below.

**Use or uses that remain allowed:** The *Prohibition of Asbestos and Products Containing Asbestos Regulations* (the Regulations) do not apply to:

- Asbestos or a product containing asbestos that is in transit through Canada, from a place outside Canada to another place outside Canada;
- Asbestos that is integrated into a structure or infrastructure if the integration occurred before the day on which these Regulations came into force (December 30, 2018);

- A product containing asbestos used before the day on which these Regulations came into force (December 30, 2018);
- Pest control products (as defined in subsection 2(1) of the *Pest Control Products Act*), as pest control products are regulated under this Act.

The Regulations do not apply to mining residues except for the following activities, which are prohibited:

- The sale of asbestos mining residues for use in construction and landscaping, unless the use is authorized by the province in which the construction or landscaping occurs; and
- The use of asbestos mining residues to manufacture a product that contains asbestos.

The Regulations include the following exclusions:

- An exclusion until December 31, 2029, for the import and use of asbestos in the chlor-alkali industry;
- An exclusion until December 31, 2022, for the import, sale and use of products containing asbestos to service equipment in nuclear facilities if no technically or economically feasible asbestos-free alternative is available;
- An exclusion until December 31, 2022, for the import, sale and use of products containing asbestos to service military equipment if no technically or economically feasible asbestos-free alternative is available;
- An ongoing exclusion for the import, sale and use of military equipment serviced with a product containing asbestos while it was outside of Canada for the purpose of a military operation if no technically or economically feasible asbestos-free alternative is available;
- An ongoing exclusion for the re-use of asbestos in existing road infrastructure into new road infrastructure or in asbestos mining site restoration;
- An ongoing exclusion for the import, sale and use of asbestos and products containing asbestos for the purpose of display in a museum;
- An ongoing exclusion for the import, sale and use of asbestos and products containing asbestos for scientific research, for sample characterization or as an analytical standard in a laboratory; and
- An ongoing exclusion for the transfer of physical possession or control of asbestos or a product containing asbestos to allow its disposal.

The amendments to the *Export of Substances on the Export Control List Regulations* prohibit exports of all forms of asbestos, whether or not it is contained in a product, with the following exceptions:

- Asbestos that is, or is contained in, a hazardous waste or hazardous recyclable material regulated by the *Export and Import of Hazardous Waste and Hazardous Recyclable Material Regulations*;
- Asbestos contained in a product that is a personal or household effect intended for personal use;
- Asbestos contained in military equipment;
- Asbestos, whether or not it is contained in a product, exported for the purpose of disposal;
- Asbestos contained in a product that was used prior to the coming into force of the amendments;
- Asbestos contained in a product exported to service military equipment during a foreign military operation, when no technically or economically feasible asbestos-free alternative is available;
- Asbestos contained in a product in amounts that are not greater than trace amounts;

- Asbestos contained in a raw material extracted from the ground and exported to manufacture a consumer product that contains asbestos in amounts that are not greater than trace amounts;
- Asbestos contained in a raw material extracted from the ground and exported to manufacture a product that is not a consumer product;
- Asbestos contained in a raw material extracted from the ground and exported for a purpose other than manufacturing a product, if the raw material will not be sold as a consumer product;
- Asbestos, whether or not it is contained in a product, for use in a laboratory (for analysis, scientific research or as a laboratory analytical standard); and
- Asbestos, whether or not it is contained in a product, for display in a museum.

***The final regulatory action was based on a risk or hazard evaluation:*** Yes

***Summary of the final regulatory action:*** Asbestos and products containing it are subject to *Prohibition of Asbestos and Products Containing Asbestos Regulations* (the Regulations) and the related amendments to the *Export of Substances on the Export Control List Regulations* (ESECLR) made under the *Canadian Environmental Protection Act, 1999* (CEPA).

The Regulations prohibit the import, sale and use of asbestos, as well as the manufacture, import, sale and use of products containing asbestos, with a limited number of exclusions. The Regulations also contain permit provisions for specific applications. In most cases, people performing an excluded activity, and permit holders, are subject to reporting and record-keeping requirements, and must implement an asbestos management plan.

The ESECLR Amendments prohibit the export of all forms of asbestos with a limited number of exceptions.

***The reasons for the final regulatory action were relevant to:*** Human health

***Summary of known hazards and risks to human health:*** The International Agency for Research on Cancer (IARC) of the World Health Organization has declared asbestos a human carcinogen (for all forms). The health risks of asbestos are well established. Breathing in asbestos fibres can cause life-threatening diseases such as asbestosis, mesothelioma and lung cancer.

According to the IARC Monographs 2012, volume 100C: "There is *sufficient evidence* in humans for the carcinogenicity of all forms of asbestos (chrysotile, crocidolite, amosite, tremolite, actinolite, and anthophyllite). Asbestos causes mesothelioma and cancer of the lung, larynx, and ovary. Also positive associations have been observed between exposure to all forms of asbestos and cancer of the pharynx, stomach, and colorectum. For cancer of the colorectum, the Working Group was evenly divided as to whether the evidence was strong enough to warrant classification as *sufficient*. There is *sufficient evidence* in experimental animals for the carcinogenicity of all forms of asbestos (chrysotile, crocidolite, amosite, tremolite, actinolite and anthophyllite). All forms of asbestos (chrysotile, crocidolite, amosite, tremolite, actinolite and anthophyllite) are *carcinogenic to humans (Group 1)*."

<https://monographs.iarc.fr/wp-content/uploads/2018/06/mono100C-11.pdf>

The following tables summarize studies of asbestos exposure and diseases discussed in the IARC monograph. References, description of the experiment and conclusions are presented. The conclusions are presented in the form of relative risk with 95% confidence interval. If the results are higher than 1 the group is more at risk, equal to 1 there is no statistical difference and lower than 1 the group is less at risk of developing the diseases. All of these predictions are calculated with 5% or less errors.

- Table summary for lung cancer:

<https://monographs.iarc.fr/wp-content/uploads/2018/06/100C-06-Table2.1.pdf>

- Table summary for lung cancer and mesothelioma:

<https://monographs.iarc.fr/wp-content/uploads/2018/06/100C-06-Table2.2.pdf>

- Table summary for mesothelioma:

<https://monographs.iarc.fr/wp-content/uploads/2018/06/100C-06-Table2.4.pdf>

The following studies are highlighted from the others in the IARC monograph as they present hazard and risk information related to asbestos exposure in Canadians.

Mortality was studied among a group of 328 employees of an Ontario asbestos-cement factory who had been hired before 1960 and who had been employed for a minimum of nine years. The study revealed that their exposure to asbestos double their all-causes mortality rate compared to the general Ontario population. Furthermore, deaths due to malignancies were five time higher than expected and deaths due to lung cancer were eight time higher.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1009162/pdf/brjindmed00054-0018.pdf>

A study on mortality rates of 1657 employees at two different Ontario chrysotile-containing automotive parts factories showed that male workers had 10% higher risk of dying from lung cancer and 28% higher risk of dying from laryngeal cancer than the provincial rates. The female workers had 16% higher risk of dying from lung cancer than the provincial rate.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1269336/>

A study on the status of malignant pleural mesotheliomas in Québec was realized by reviewing 120 confirmed cases accepted by the Québec Workman's Compensation Board (CSST). The study highlights an increasing number of work-related mesothelioma in the 1967-1990 period in Québec. Furthermore, the incidence of mesothelioma case for chrysotile miners and millers was 62.5 cases per million per year for the 1980-1990 period compared to the estimated 2.5 to 15 case per million per year rate for the North American population.

<https://www.ncbi.nlm.nih.gov/pubmed/1332466>

Using an approach that considered historical uses of exposure in Canada to guide exposure assessments for the present day, results from CAREX Canada indicate that approximately 152,000 Canadians are currently exposed to asbestos in their workplaces, and are primarily male. This estimate includes people with the potential for exposure at work to any form of asbestos likely to exceed the non-occupational background level in dwellings or urban air (usually below 0.001 f/cm<sup>3</sup>). The largest industrial groups exposed are construction-related (specialty trades and building construction contribute about 88% of all exposed workers). Other important industries are automotive repair and maintenance, ship and boat building, and remediation work.

When examining exposure to asbestos by occupation, the largest exposed groups are carpenters and cabinetmakers (exposed during renovations; 34,000 workers exposed). Construction trades helpers and labourers are the second largest group (29,000 workers). Other important job groups which may be exposed are electricians, plumbers, plaster and drywall installers, and auto mechanics.

[https://www.carexcanada.ca/en/asbestos/occupational\\_estimate/](https://www.carexcanada.ca/en/asbestos/occupational_estimate/)

It has been estimated that asbestos was responsible for approximately 1 900 lung cancer cases and 430 mesothelioma cases in Canada in 2011. These cases are heavily influenced by historical exposure from the 1970s to the 1990s. The use of asbestos has been steadily declining over the last 30 years, which has already led and will continue to lead to a reduction in the number of asbestos-related illnesses in Canada.

Although there are measures in place to limit Canadian exposure to asbestos in the workplace, this occupational risk can only be fully eliminated by ensuring that asbestos is replaced by alternatives. To do so, Canada prohibited the import and domestic use of asbestos.

<http://gazette.gc.ca/rp-pr/p2/2018/2018-10-17/pdf/g2-15221.pdf#page=64>

## REFERENCE

Regulatory Impact Analysis Statement, *Prohibition of Asbestos and Products Containing Asbestos Regulations*. Government of Canada. October 2018.

<http://gazette.gc.ca/rp-pr/p2/2018/2018-10-17/pdf/g2-15221.pdf#page=64>

***Expected effect of the final regulatory action in relation to human health:*** The *Prohibition of Asbestos and Products Containing Asbestos Regulations* (the Regulations) are expected to reduce the amount of future asbestos and products containing asbestos being imported and used in Canada. It is

estimated that about 4 700 tonnes of asbestos use would be reduced between 2019 and 2035. As a result, exposure to asbestos would decline over time and health benefits would be generated from avoided adverse health outcomes.

Approximately 99% of the workers who would potentially benefit from the Regulations are currently employed in the construction and automotive industries.

Overall, the Regulations are expected to result in incremental reductions in risk of asbestos exposure. Due to latency effects, the health benefits from reductions in risk of exposure are expected to be generated at least 10 to 40 years after the implementation of the Regulations.

The amendments to the *Export of Substances on the Export Control List Regulations* are not expected to result in direct health benefits to Canadians. Though it is possible that benefits could occur outside Canada to countries where products containing asbestos are exported.

**Summary of known hazards and risks to the environment:** N/A

**Expected effect of the final regulatory action in relation to the environment:** N/A

**Date of entry into force of the final regulatory action:** 30/12/2018

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## CANADA

**Common Name(s):** Ferbam

**CAS number(s):** 14484-64-1

**Chemical Name:** Iron tris(dimethyldithiocarbamate)

**Final regulatory action has been taken for the category:** Pesticide

**Final regulatory action:** The chemical is banned.

**Use or uses prohibited by the final regulatory action:** All registered formulations containing ferbam and all registered uses of this active ingredient are prohibited.

**Use or uses that remain allowed:** Not applicable

**The final regulatory action was based on a risk or hazard evaluation:** Yes

**Summary of the final regulatory action:** Sale of Pesticides containing ferbam will be prohibited in Canada effective December 14, 2020. The use of products containing ferbam will be prohibited after December 14, 2021.

**The reasons for the final regulatory action were relevant to:** Human health

**Summary of known hazards and risks to human health:** Based on the label directions of ferbam products that were registered at the time of the review, use of the pesticide ferbam posed a risk that was not found to be acceptable to workers handling ferbam products during mixing/loading and application, as well as when entering treated sites following application. An aggregate dietary risk assessment did not find exposure to ferbam from food and drinking water to be acceptable. Therefore, ferbam does not meet Health Canada's current standards for human health protection.

**Expected effect of the final regulatory action in relation to human health:** Reduction of risk from the use of pesticides containing ferbam.

**Date of entry into force of the final regulatory action:** 14/12/2018

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## EUROPEAN UNION

**Common Name(s):** Amitrole

**CAS number(s):** 61-82-5

**Chemical Name:** 1-H-1,2,4-triazol-3-ylamine

**Final regulatory action has been taken for the category:** Pesticide

**Final regulatory action:** The chemical is banned

**Use or uses prohibited by the final regulatory action:** All applications as a plant protection product.

**Use or uses that remain allowed:** Not relevant

**The final regulatory action was based on a risk or hazard evaluation:** Yes

**Summary of the final regulatory action:** It is prohibited to place on the market or use plant protection products containing amitrole.

Amitrole is not included in the list of approved active substances under Regulation (EC) No 1107/2009. As a consequence, amitrole is not approved for placing on the market pursuant to Regulation (EC) No 1107/2009 concerning the placing of plant protection products on the market.

EU Member States had to withdraw all authorisations for plant protection products containing amitrole by 30 September 2016. Any grace period granted by Member States for the disposal, storage, placing on the market and use of existing stocks of plant protection products containing amitrole had to expire on 30 September 2017 at the latest.

**The reasons for the final regulatory action were relevant to:** Human health and environment

**Summary of known hazards and risks to human health:** It was concluded that no plant protection product containing the active substance amitrole is expected to satisfy in general the requirements laid down in Article 29(1) of Regulation (EC) No 1107/2009 and the uniform principles laid down in Regulation (EC) 546/2011.

According to the evaluation related to human health the following concerns were identified:

- risk to operators, workers, bystanders and residents;
- high potential for groundwater exposure by the toxicologically relevant metabolite of amitrole (1,2,4-triazole) above the parametric drinking water limit of 0.1 µg/L in situations represented by all 9 pertinent groundwater scenarios for crop uses.

The information available was insufficient to satisfy the requirements set out in Article 4(1) to (3) of Regulation (EC) No 1107/2009, in particular with regard to the risk to consumers. In more detail, the consumer risk assessment for the representative uses on crops, according to the residue definition for risk assessment established by the peer review was not finalised, and data gaps were identified for storage stability data in crops with high water content and sufficient residue trials for the representative crop uses.

Additionally, amitrole is classified in accordance with Regulation (EC) No 1272/2008 as toxic for reproduction category 2 and it has toxic effects on endocrine organs (thyroid). Therefore, amitrole should be considered to have endocrine disrupting properties pursuant to the interim provisions of the fourth paragraph of point 3.6.5 of Annex II to Regulation (EU) No 1107/2009.

However, given that the identified risks referred to above preclude approval of amitrole, it was not appropriate to consider whether exposure to amitrole under realistic proposed conditions of use is negligible. Therefore, it could not be concluded whether amitrole meets the approval criteria related to endocrine disrupting properties as outlined in the first paragraph of point 3.6.5 of Annex II to Regulation (EU) No 1107/2009.

Furthermore, during the peer review it was proposed that amitrole should be re-classified as toxic for reproduction category 1B.

**Expected effect of the final regulatory action in relation to human health:** Reduction of risk for human health from the use of plant protection products containing amitrole.

**Summary of known hazards and risks to the environment:** It was concluded that no plant protection product containing the active substance amitrole is expected to satisfy in general the requirements laid down in Article 29(1) of Regulation (EC) No 1107/2009 and the uniform principles laid down in Regulation (EC) 546/2011.

According to the evaluation related to environment the following concerns were identified:

- high potential for groundwater exposure by the toxicologically relevant metabolite of amitrole (1,2,4-triazole) above the parametric drinking water limit of 0.1 µg/L in situations represented by all 9 pertinent groundwater scenarios for crop uses;

- risk to aquatic organisms for non-crop uses;
- high risk to soil non-target macro- and microorganisms from metabolite 1,2,4-triazole for all representative uses.

The information available was insufficient to satisfy the requirements set out in Article 4(1) to (3) of Regulation (EC) No 1107/2009, in particular with regard to:

- the risk to birds and mammals for all representative uses;
- the risk to aquatic organisms for crop uses.

**Expected effect of the final regulatory action in relation to the environment:** Reduction of risk for the environment from the use of plant protection products containing amitrole.

**Date of entry into force of the final regulatory action:** 01/06/2016

## SRI LANKA

**Common Name(s):** Chlorpyrifos

**CAS number(s):** 2921-88-2

**Chemical Name:** O,O-Diethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate

**Final regulatory action has been taken for the category:** Pesticide

**Final regulatory action:** The chemical is banned.

**Use or uses prohibited by the final regulatory action:** All formulations containing chlorpyrifos (active ingredients).

**Use or uses that remain allowed:** None/Not applicable

**The final regulatory action was based on a risk or hazard evaluation:** Yes

**Summary of the final regulatory action:** The Pesticide Technical & Advisory Committee of Sri Lanka during its 28<sup>th</sup> meeting on 7<sup>th</sup> May 2004 decided to prohibit the residential indoor use of chlorpyrifos for termite controls in Sri Lanka, while other uses remained allowed. As a result of the above decision, all labels of registered chlorpyrifos products were amended to reflect the above decision.

The Pesticide Technical & Advisory Committee of Sri Lanka during its 65<sup>th</sup> meeting on 05.04.2013 made a final regulatory action to ban chlorpyrifos in Sri Lanka. As a result of the decision, the registration of all products and formulations containing active ingredient chlorpyrifos was cancelled on 28 December 2016 (REF: *Government Extraordinary Gazette No. 1999/33 dated 28.12.2016 under the Control of Pesticides Act No.33 of 1980*). Effective from that date, the use of chlorpyrifos as a pesticide for agriculture and structural termite controls were prohibited in Sri Lanka. Effective from the same date the production, trade and import of chlorpyrifos had all been prohibited.

[Dealers and farmers were given grace periods to finish off the old stock of chlorpyrifos products at the end of the following dates:

Cancellation of registration: 28 December 2016

Stock Clearance at dealers/shops: 28 December 2018

Use-up old stocks by farmers: No decision

**The reasons for the final regulatory action were relevant to:** Human health and environment

**Summary of known hazards and risks to human health:** The following study "Exposure and risk assessment for farmers occupationally exposed to chlorpyrifos" by Aponso et al., (2002) *Annals of the Sri Lanka Department of Agriculture*, 2002, 4: 233-244 showed that farmers using chlorpyrifos on cucurbits (grows on trellises) can expose to unnecessary residue levels as measured by major metabolite, 3,5,6-trichloro-2-pyridinol (TCP): results indicated that dermal exposure under normal use ranged from 4.8-19.6 microgram/cm<sup>2</sup> on exposed skin; the elimination half-life of the urinary TCP metabolite was 31.2 hr; the calculated hazard quotient of cholinesterase inhibition ranged from 0.8 - 2.7, and margin of safety ranged from 3.6-14.3 for the farmer. This indicates the high occupational

risk of chlorpyrifos to the farmer under use conditions. It was further revealed that the use of long-sleeved shirts had decrease the internal dose of chlorpyrifos (measured as TCP) than wearing short-sleeved shirts; the contrasting difference was that wearing long pants had increase the internal dose (may be due to prolonged exposure).

The following study "Analysis of water for pesticides in two major agricultural areas of the dry zone" by Aponso et al. (2003) Annals of the Sri Lanka Department of Agriculture, 2003, 5: 7-22 showed that the farming community in the study area was reported to have clinical symptoms of exposure by 83%, related to acute toxicity, but 21% of the group had confirmed effects related to pesticide exposure. The main symptoms found were dysuria, myalgia & headache.

The first review which was done by Pesticide Technical & Advisory Committee (PeTAC) at its 28<sup>th</sup> meeting held on 07.05.2004; based on the regulatory overview of the USEPA. (Human Health Risk Assessment Chlorpyrifos Phase 4, U.S. Environmental Protection Agency Office of Pesticide Programs Health Effects Division (7509C) Deborah C. Smegal, M.P.H., Risk Assessor, June 8, 2000). According to the report available exposure of chlorpyrifos by children has been mitigated as follows: the use on tomatoes, all indoor residential uses, all outdoor residential uses (except limited public health uses), all indoor non-residential uses were eliminated.

Accordingly, as a preliminary step, the PeTAC at its 29<sup>th</sup> meeting held on 12.07.2004 decided to prohibit indoor residential uses on termite control in Sri Lanka. All labelling was amended to reflect the above decision by 2004. During the progressive review of use, the PeTAC at its 30<sup>th</sup> meeting held on 07.09.2004 decided to ban post-construction use as a termiticide while taking further attention to assess the risks associated for possible phase out from agriculture under the conditions of use by farmers.

**Expected effect of the final regulatory action in relation to human health:** Significant health risk reduction for farmers; being a high-volume pesticide, there will be significant reduction of chemicals & environmental load in consequent to this decision.

**Summary of known hazards and risks to the environment:** The following study by Sumith et al. (2012) showed that chlorpyrifos, diazinon and carbosulfan had the greatest amount of agricultural application in the agricultural catchment, and chlorpyrifos, diazinon, and carbofuran were the dominant pollutants found. Chlorpyrifos and diazinon were detected in sediments at concentrations of 16.36 mg/kg (dry wt.). The study showed that 73% inhibition in muscle AChE activity in *Garra ceylonensis* was associated with intense pesticide exposure months. The AChE inhibition more than 70% in *G. ceylonensis* eyes in both Yala (76%) and Maha (72.5%) seasons indicates particular sensitivity of eye tissue to inhibitors. The less dramatic AChE inhibition in the eye tissues in *Devario malabaricus* and *Rasbora daniconius* in both seasons indicates exemplary protective capacity of muscle AChE in fish. The highest inhibition of AChE (up to 60% in brain and up to 56% in muscle AChE activity in *R. daniconius* and up to 47.8% in brain and up to 64.6% in muscle AChE activity in *D. malabaricus*) occurred during the intense pesticide exposure months.

This study revealed dynamic impact of agricultural pollutants (including chlorpyrifos) on indigenous fish communities & their existence.

Ref. Sumith et al. (2012). SEASONAL EXPOSURE OF FISH TO NEUROTOXIC PESTICIDES IN AN INTENSIVE AGRICULTURAL CATCHMENT, UMA-OYA, SRI LANKA: LINKING CONTAMINATION AND ACETYLCHOLINESTERASE INHIBITION. Environmental Toxicology and Chemistry, 31 (7), 1501-1510, 2012.

(risk assessment 2)

**Expected effect of the final regulatory action in relation to the environment:** Less chemical burden to the environment.

**Date of entry into force of the final regulatory action:** 28/12/2016



**SRI LANKA**

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**Common Name(s):** Polybrominated Biphenyls (PBBs)

**CAS number(s):** 13654-09-6, 27858-07-7, 36355-01-8

**Chemical Name:** Hexabromobiphenyl, Octabromobiphenyl, Decabromobiphenyl, Polybrominated Biphenyls (PBBs)

**Final regulatory action has been taken for the category:** Industrial

**Final regulatory action:** The chemical is banned.

**Use or uses prohibited by the final regulatory action:** Importation is banned by this regulation, but not mentioned about the use.

**Use or uses that remain allowed:** In this regulation uses of PBBs have not been mentioned, therefore existing items with PBBs can be used until they become obsolete or safely disposed.

**The final regulatory action was based on a risk or hazard evaluation:** No

**Summary of the final regulatory action:** Importation of Chemical PBBs and PBBs containing articles is banned.

**The reasons for the final regulatory action were relevant to:** Human health and environment

**Summary of known hazards and risks to human health:** Based on the International studies and the Recommendations of the WHO and Rotterdam Convention and the Stockholm Convention.

**Expected effect of the final regulatory action in relation to human health:** To stop the PBBs and PBBs containing items coming in to the country and to safely dispose the already existing PBBs.

**Summary of known hazards and risks to the environment:** Based on the International studies and the Recommendations of the WHO and Rotterdam Convention and the Stockholm Convention.

**Expected effect of the final regulatory action in relation to the environment:** To stop the PBBs and PBBs containing items coming in to the country and to safely dispose the already existing PBBs.

**Date of entry into force of the final regulatory action:** 09/11/2017

**SRI LANKA**

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**Common Name(s):** Perfluorooctane sulfonic acid, perfluorooctane sulfonates, perfluorooctane sulfonamides and perfluorooctane sulfonyls and related compounds

**CAS number(s):** 1691-99-2, 1763-23-1, 24448-09-7, 2795-39-3, 29081-56-9, 29457-72-5, 2991-51-7, 307-35-7, 31506-32-8, 4151-50-2, 70225-14-8, 92265-81-1

**Group Members:** Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-,chloride, polymer with 2-ethoxyethyl 2-propenoate, 2-[[heptadecafluorooctyl)sulfonyl]methylamino]ethyl 2-propenoate and oxiranylmethyl 2-methyl-2-propenoate, Perfluorooctanesulfonyl fluoride (PFOSF), Perfluorooctane sulfonic acid, potassium salt, Perfluorooctane sulfonic acid, ammonium salt, Perfluorooctane sulfonic acid, diethanolamine salt, N-Ethylperfluorooctane-sulfonamide (N-EtFOSA), N-Ethyl-N-(2-hydroxyethyl)perfluorooctane sulfonamide (N-EtFOSE), N-(2-hydroxyethyl)-N-methylperfluorooctane sulfonamide (N-MeFOSE), N-methyl perfluorooctane sulfonamide (N-MeFOSA), Potassium N-ethyl perfluorooctane sulfonamidoacetate (PFOSAA)

**Chemical Name:** 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, and its salts and compounds that contain one of: C<sub>8</sub>F<sub>17</sub>SO<sub>2</sub>, C<sub>8</sub>F<sub>17</sub>SO<sub>3</sub> or C<sub>8</sub>F<sub>17</sub>SO<sub>2</sub>N

**Final regulatory action has been taken for the category:** Industrial

**Final regulatory action:** The chemical is severely restricted.

**Use or uses prohibited by the final regulatory action:** Importation is restricted by this regulation, but not mentioned about the use.

**Use or uses that remain allowed:** In this regulation uses of PFOS have not been mentioned but strictly regulated the importation of PFOS and PFOS containing articles.

**The final regulatory action was based on a risk or hazard evaluation:** No

**Summary of the final regulatory action:** Importation of Chemical PFOS and PFOS containing articles is restricted.

**The reasons for the final regulatory action were relevant to:** Human health and environment

**Summary of known hazards and risks to human health:** Based on the International studies and the Recommendations of the WHO and Rotterdam Convention and the Stockholm Convention.

**Expected effect of the final regulatory action in relation to human health:** To regulate the PFOS coming in to the country and to safely dispose the waste PFOS.

**Summary of known hazards and risks to the environment:** Based on the International studies and the Recommendations of the WHO and Rotterdam Convention and the Stockholm Convention.

**Expected effect of the final regulatory action in relation to the environment:** To regulate the PFOS coming in to the country and to safely dispose the waste PFOS.

**Date of entry into force of the final regulatory action:** 05/07/2013

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## SRI LANKA

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**Common Name(s):** Tetraethyl lead & Tetramethyl lead      **CAS number(s):** 75-74-1, 78-00-2

**Chemical Name:** Plumbane, tetraethyl-; Plumbane, tetramethyl-

**Final regulatory action has been taken for the category:** Industrial

**Final regulatory action:** The chemical is severely restricted.

**Use or uses prohibited by the final regulatory action:** Importation is restricted by this regulation, but not mentioned about the use.

**Use or uses that remain allowed:** In this regulation uses of TEL and TML have not been mentioned.

**The final regulatory action was based on a risk or hazard evaluation:** No

**Summary of the final regulatory action:** Importation of Tetraethyl Lead and Tetramethyl Lead containing fuels are restricted.

**The reasons for the final regulatory action were relevant to:** Human health and environment

**Summary of known hazards and risks to human health:** Based on the International studies and the Recommendations of the WHO and Rotterdam Convention and the Stockholm Convention.

**Expected effect of the final regulatory action in relation to human health:** To restrict the TEL and TML coming in to the country and to safely handle the already existing TEL and TML.

**Summary of known hazards and risks to the environment:** Based on the International studies and the Recommendations of the WHO and Rotterdam Convention and the Stockholm Convention.

**Expected effect of the final regulatory action in relation to the environment:** To restrict the TEL and TML coming in to the country and to safely handle the already existing TEL and TML.

**Date of entry into force of the final regulatory action:** 05/06/2013

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**SRI LANKA**

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**Common Name(s):** Tris(2,3 dibromopropyl)phosphate **CAS number(s):** 126-72-7

**Chemical Name:** 1-Propanol, 2,3-dibromo-, phosphate (3:1)

**Final regulatory action has been taken for the category:** Industrial

**Final regulatory action:** The chemical is severely restricted.

**Use or uses prohibited by the final regulatory action:** Importation is restricted by this regulation, but not mentioned about the use.

**Use or uses that remain allowed:** In this regulation uses of Tris compounds have not been mentioned, therefore existing Tris compound containing items can be used until they become obsolete or safely disposed.

**The final regulatory action was based on a risk or hazard evaluation:** No

**Summary of the final regulatory action:** Importation of this Chemical is restricted. An import license is to be obtained prior to the importation.

**The reasons for the final regulatory action were relevant to:** Human health and environment

**Summary of known hazards and risks to human health:** Based on the International studies and the Recommendations of the WHO and Rotterdam Convention and the Stockholm Convention.

**Expected effect of the final regulatory action in relation to human health:** To stop the Tris compounds and Tris compound containing items coming in to the country and to safely dispose the already existing Tris compounds.

**Summary of known hazards and risks to the environment:** Based on the International studies and the Recommendations of the WHO and Rotterdam Convention and the Stockholm Convention.

**Expected effect of the final regulatory action in relation to the environment:** To stop the Tris compounds and Tris compound containing items coming in to the country and to safely dispose the already existing Tris compounds.

**Date of entry into force of the final regulatory action:** 05/06/2013

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**SWEDEN**

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**Common Name(s):** Mercury **CAS number(s):** 7439-97-6

**Chemical Name:** Mercury

**Final regulatory action has been taken for the category:** Industrial

**Final regulatory action:** The chemical is banned

**Use or uses prohibited by the final regulatory action:** The ordinance (1998:944) prohibits:

- Placing on the market or use of mercury;
- Placing articles containing mercury on the market

In addition to the prohibition of export of metallic mercury under regulation (EC) n° 1102/2008, mercury and articles containing mercury may not be commercially exported from Sweden.

**Use or uses that remain allowed:**

1. Mercury naturally present in coal, ore or ore concentrates;
2. Batteries containing less than 0.0005 % by weight of mercury;
3. Packaging and packaging components;
4. Motor vehicles and their trailers covered by the provisions concerning the approval of vehicles in Ordinance (2009: 211);

5. Light trucks and passenger cars other than the EU-approved cars covered by § 2 Regulation (2003: 208) concerning prohibition of certain metals in cars;
6. Products for in vitro diagnostics subject to the Act (1993: 584) concerning medical devices;
7. Commercial exportation of dental amalgams as subject to the Act (1993: 584) concerning medical devices, when export is made to another country in the European Union or European Economic Area;
8. Human and veterinary medicines covered by the Medicines Act (2015: 315) and the European Parliament and Council Regulation (EC) No 726/2004;
9. If a similar ban on the placing on the market or use the provisions of Annex XVII to Regulation (EC) No 1907/2006;
10. The uses permitted under Article 67.1 second sentence and 18a.3, 18a.6 and 18a.8 Annex XVII Regulation (EC) 1907/2006, commercial export or import of:
  - a) Goods in connection with repair or calibration abroad;
  - b) Military equipment in connection with exercises, training or international activities; or
  - c) Replacement parts and other components for repair and maintenance of equipment for a specific military purpose;
11. Mercury waste being exported from Sweden for recovery or disposal; or
12. Electrical and electronic equipment, cables and spare parts covered by the Regulation (2012: 861) on hazardous substances in electrical and electronic equipment.

***The final regulatory action was based on a risk or hazard evaluation: Yes***

***Summary of the final regulatory action:*** A general ban that prohibits placing on the market or use of mercury, goods that contain mercury to be placed on the Swedish market, or exported from Sweden. Goods that are already on the market or are in use may continue to be used. It is not permitted to refill these products with new mercury.

Certain limited exemptions from the ban exists, and if there are additional exceptional reasons, the Swedish Chemicals Agency may grant an exemption in an individual case.

The export of waste that contains mercury is prohibited. The Swedish Environmental Protection Agency has the possibility to grant exemptions for the export of waste for recovery in individual cases if there are special reasons and also to impose the condition that the mercury shall be re-imported into Sweden for final disposal.

A number of areas where harmonised EC legislation makes it very difficult to introduce national rules was identified and these are therefore excluded. This applies, for example, to batteries, light sources and vehicles.

***The reasons for the final regulatory action were relevant to:*** Human health and environment

***Summary of known hazards and risks to human health:*** The National Food Administration (NFA) recommends pregnant women not to eat fresh-water fish more than 2-3 times a year. This applies as well to large predatory fish such as fresh tuna, swordfish, large halibut, shark and skate. The rest of the population is recommended not to eat fresh-water fish more than once a week. The World Health Organization, WHO, has set a tolerable weekly intake of methylmercury of 1.6 micrograms per kilogram of body weight. A newer tolerable weekly intake of 1.3 micrograms per kilogram of body weight has been developed by the European Food Safety Authority, EFSA. According to the NFA risk assessment in 2007 estimated that a small percentage (0-4%) of pregnant women in Sweden can exceed NRC's lower value of 0.7. Very stringent measures have been necessary to reduce the exposure to mercury for major parts of the Swedish population. The restrictions on the occupational use of mercury have also been considered necessary since the normal background exposure to mercury is already too high. Any additional exposure to mercury is therefore linked to unacceptable risks for negative effects on human health.

***Expected effect of the final regulatory action in relation to human health:*** Decreased emission and thereby decreased levels in fish for consumption.

**Summary of known hazards and risks to the environment:** There has been an atmospheric deposition for a number of decades and the levels are high enough to disturb important biological processes in the soil, especially in the south of Sweden. These processes are essential to maintain the ecosystem in the forests including the production capacity. Even though the emissions have decreased in the last few decades there is still a continued accumulation of mercury in the top layer of the soils in forests. The levels are now up to five times the natural levels. Likewise, the levels in arable land are close to the concentrations where the productivity of the soil is at risk.

Regarding fish and wildlife there have been no reports on adverse effects on fish species at present concentrations. It is however likely that predatory mammals might be at risk due to high concentrations of mercury in predatory fish, such as pike. The US EPA has developed methylmercury wildlife criteria for mink and otter (Mercury study report to congress, US EPA, Dec 1997), and these are exceeded already at, for Swedish conditions, relatively common mercury concentrations of 1 ng/l in fresh-water fish (UNEP, Global Mercury Assessment). Considering the high concentration of mercury in Swedish fish, it is therefore realistic to assume negative effects on mammals living primarily on a fish diet.

**Expected effect of the final regulatory action in relation to the environment:** Decreased emission levels and thereby decreased risks for negative effects on the ecosystems in the soil, lakes and coastal areas in the Baltic Sea.

**Date of entry into force of the final regulatory action:** 01/06/2009

This notification replaces all previously submitted notifications on this chemical.

Date of issue of the previous notification: 12/06/2006, where it was informed that the chemical was severely restricted.

## Synopsis of notifications of final regulatory action received since the last PIC Circular

### PART B

#### NOTIFICATIONS OF FINAL REGULATORY ACTION THAT HAVE BEEN VERIFIED AS NOT CONTAINING ALL THE INFORMATION REQUIRED BY ANNEX I TO THE CONVENTION

No notifications of final regulatory action have been verified to not contain all the information requirements of Annex I to the Convention, received between 1 November 2018 and 30 April 2019.

### PART C

#### NOTIFICATIONS OF FINAL REGULATORY ACTION STILL UNDER VERIFICATION

Chemical name	CAS No.	Category	Country	Region	Annex III
Atrazine	1912-24-9	Pesticide	Uruguay	Latin America and the Caribbean	No
Azinphos-methyl	86-50-0	Pesticide	Uruguay	Latin America and the Caribbean	Yes
Carbofuran	1563-66-2	Pesticide	Uruguay	Latin America and the Caribbean	Yes
Methidathion	950-37-8	Pesticide	Uruguay	Latin America and the Caribbean	No
Methomyl	16752-77-5	Pesticide	Uruguay	Latin America and the Caribbean	No
Parathion-methyl	2980-00-00	Pesticide	Uruguay	Latin America and the Caribbean	No
Dibromochloropropane (DBCP)	96-12-8	Pesticide	Indonesia	Asia	No
2,3-Dichlorophenol	576-24-9	Pesticide	Indonesia	Asia	No
(2,4,5-trichlorophenoxy)acetic acid	93-76-5	Industrial	Indonesia	Asia	No
2,4,5-Trichlorophenol	95-95-4	Pesticide	Indonesia	Asia	No
2,4,6-Trichlorophenol	88-06-2	Pesticide	Indonesia	Asia	No
2,4-Dichlorophenol	120-83-2	Pesticide	Indonesia	Asia	No
2,5-Dichlorophenol	583-78-8	Pesticide	Indonesia	Asia	No
Aldicarb	116-06-3	Pesticide	Indonesia	Asia	Yes
Aldrin	309-00-2	Pesticide/Industrial	Indonesia	Asia	Yes/No
Captafol	2425-06-1	Pesticide	Indonesia	Asia	Yes
Chlordane	57-74-9	Pesticide	Indonesia	Asia	Yes
Chlordimeform	6164-98-3	Pesticide	Indonesia	Asia	Yes
Chlorobenzilate	510-15-6	Pesticide	Indonesia	Asia	Yes
Crocidolite asbestos	12001-28-4	Industrial	Indonesia	Asia	Yes
Cyhexatin	13121-70-5	Pesticide	Indonesia	Asia	No
DDT	50-29-3	Pesticide/Industrial	Indonesia	Asia	Yes/No
Dieldrin	60-57-1	Pesticide/Industrial	Indonesia	Asia	Yes/No
Dinoseb and its salts and esters	88-85-7	Pesticide/Industrial	Indonesia	Asia	Yes/No
Endosulfan	115-29-7	Pesticide	Indonesia	Asia	Yes

Chemical name	CAS No.	Category	Country	Region	Annex III
Endrin	72-20-8	Pesticide/Industrial	Indonesia	Asia	Yes/No
Ethyl p-nitrophenyl benzenethiophosphonate (EPN)	2104-64-5	Pesticide	Indonesia	Asia	No
1,2-dibromoethane (EDB)	106-93-4	Pesticide/Industrial	Indonesia	Asia	Yes/No
Ethylene Dichloride	107-06-2	Pesticide/Industrial	Indonesia	Asia	Yes/No
Ethylene Oxide	75-21-8	Pesticide/Industrial	Indonesia	Asia	Yes/No
Fluoroacetamide	640-19-7	Pesticide/Industrial	Indonesia	Asia	Yes/No
Heptachlor	76-44-8	Pesticide/Industrial	Indonesia	Asia	Yes/No
Hexachlorobenzene	118-74-1	Pesticide/Industrial	Indonesia	Asia	Yes/No
HCH (mixed isomers)	608-73-1	Pesticide/Industrial	Indonesia	Asia	Yes/No
Lindane	58-89-9	Pesticide/Industrial	Indonesia	Asia	Yes/No
Mercury	7439-97-6	Pesticide/Industrial	Indonesia	Asia	No
Methamidophos	10265-92-6	Pesticide/Industrial	Indonesia	Asia	Yes/No
Methyl-parathion	298-00-0	Pesticide/Industrial	Indonesia	Asia	Yes/No
Methyl bromide	74-83-9	Pesticide/Industrial	Indonesia	Asia	No
Mirex	2385-85-5	Pesticide/Industrial	Indonesia	Asia	Yes/No
Monocrotophos	6923-22-4	Pesticide/Industrial	Indonesia	Asia	Yes/No
Bromophos-ethyl (O-(4-Bromo-2-chlorophenyl) O,O-diethyl phosphorothioate)	4824-78-6	Pesticide	Indonesia	Asia	No
Parathion	56-38-2	Pesticide/Industrial	Indonesia	Asia	Yes/No
Polychlorinated biphenyls (PCBs)	1336-36-3	Pesticide/Industrial	Indonesia	Asia	No/Yes
Pentachlorophenol	87-86-5	Pesticide/Industrial	Indonesia	Asia	Yes/No
Phosphamidon	13171-21-6	Pesticide/Industrial	Indonesia	Asia	Yes/No
Polybrominated biphenyls (PBBs)	36355-01-8 (hexa-) 27858-07-7 (octa-) 13654-09-6 (deca-)	Pesticide/Industrial	Indonesia	Asia	No/Yes
Polychlorinated terphenyls (PCTs)	61788-33-8	Pesticide/Industrial	Indonesia	Asia	No/Yes
Toxaphene	8001-35-2	Pesticide/Industrial	Indonesia	Asia	Yes/No
Tris(2,3-dibromopropyl) phosphate	126-72-7	Pesticide/Industrial	Indonesia	Asia	No/Yes

## **APPENDIX II**

### **PROPOSALS FOR INCLUSION OF SEVERELY HAZARDOUS PESTICIDE FORMULATIONS IN THE PIC PROCEDURE**

#### **PART A**

**SUMMARY OF EACH PROPOSAL FOR INCLUSION OF A SEVERELY  
HAZARDOUS PESTICIDE FORMULATION THAT HAS BEEN VERIFIED TO  
CONTAIN ALL INFORMATION REQUESTED BY PART 1 OF ANNEX IV TO THE  
CONVENTION**

None.

#### **PART B**

**PROPOSALS FOR INCLUSION OF SEVERELY HAZARDOUS PESTICIDE  
FORMULATIONS STILL UNDER VERIFICATION**

None.



## APPENDIX III

## CHEMICALS SUBJECT TO THE PIC PROCEDURE

Chemical name	CAS No.	Category	Date of first dispatch of decision guidance document
2,4,5-T and its salts and esters	93-76-5 <sup>1</sup>	Pesticide	Prior to adoption of Convention
Alachlor	15972-60-8	Pesticide	24 October 2011
Aldicarb	116-06-3	Pesticide	24 October 2011
Aldrin	309-00-2	Pesticide	Prior to adoption of Convention
Azinphos-methyl	86-50-0	Pesticide	10 August 2013
Binapacryl	485-31-4	Pesticide	1 February 2005
Captafol	2425-06-1	Pesticide	Prior to adoption of Convention
Carbofuran	1563-66-2	Pesticide	15 September 2017
Chlordane	57-74-9	Pesticide	Prior to adoption of Convention
Chlordimeform	6164-98-3	Pesticide	Prior to adoption of Convention
Chlorobenzilate	510-15-6	Pesticide	Prior to adoption of Convention
DDT	50-29-3	Pesticide	Prior to adoption of Convention
Dieldrin	60-57-1	Pesticide	Prior to adoption of Convention
Dinitro- <i>ortho</i> -cresol (DNOC) and its salts (such as ammonium salt, potassium salt and sodium salt)	534-52-1 2980-64-5 5787-96-2 2312-76-7	Pesticide	1 February 2005
Dinoseb and its salts and esters	88-85-7 <sup>1</sup>	Pesticide	Prior to adoption of Convention
1,2-dibromoethane (EDB)	106-93-4	Pesticide	Prior to adoption of Convention
Endosulfan	115-29-7	Pesticide	24 October 2011
Ethylene dichloride	107-06-2	Pesticide	1 February 2005
Ethylene oxide	75-21-8	Pesticide	1 February 2005
Fluoroacetamide	640-19-7	Pesticide	Prior to adoption of Convention
HCH (mixed isomers)	608-73-1	Pesticide	Prior to adoption of Convention
Heptachlor	76-44-8	Pesticide	Prior to adoption of Convention
Hexachlorobenzene	118-74-1	Pesticide	Prior to adoption of Convention
Lindane	58-89-9	Pesticide	Prior to adoption of Convention
Mercury compounds, including inorganic mercury compounds, alkyl mercury compounds and alkyloxyalkyl and aryl mercury compounds		Pesticide	Prior to adoption of Convention
Methamidophos	10265-92-6	Pesticide	15 September 2015 <sup>2</sup>
Monocrotophos	6923-22-4	Pesticide	1 February 2005
Parathion	56-38-2	Pesticide	1 February 2005
Pentachlorophenol and its salts and esters	87-86-5 <sup>1</sup>	Pesticide	Prior to adoption of Convention
Phorate	298-02-2	Pesticide	To be issued on 16 September 2019
Toxaphene	8001-35-2	Pesticide	1 February 2005
All tributyltin compounds including: - Tributyltin oxide - Tributyltin fluoride - Tributyltin methacrylate - Tributyltin benzoate - Tributyltin chloride - Tributyltin linoleate - Tributyltin naphthenate	56-35-9 1983-10-4 2155-70-6 4342-36-3 1461-22-9 24124-25-2 85409-17-2	Pesticide	1 February 2009 <sup>3</sup>
Trichlorfon	52-68-6	Pesticide	15 September 2017

Chemical name	CAS No.	Category	Date of first dispatch of decision guidance document
Dustable powder formulations containing a combination of: - Benomyl at or above 7%, - Carbofuran at or above 10%, - Thiram at or above 15%	17804-35-2 1563-66-2 137-26-8	Severely hazardous pesticide formulation	1 February 2005
Phosphamidon (soluble liquid formulations of the substance that exceed 1000 g active ingredient/L)	13171-21-6 (mixture, (E)&(Z) isomers) 23783-98-4 ((Z)-isomer) 297-99-4 ((E)-isomer)	Severely hazardous pesticide formulation	Prior to adoption of Convention
Methyl-parathion (emulsifiable concentrates (EC) at or above 19.5% active ingredient and dusts at or above 1.5% active ingredient)	298-00-0	Severely hazardous pesticide formulation	Prior to adoption of Convention
Asbestos: - Actinolite - Anthophyllite - Amosite - Crocidolite - Tremolite	77536-66-4 77536-67-5 12172-73-5 12001-28-4 77536-68-6	Industrial	1 February 2005 1 February 2005 1 February 2005 Prior to adoption of Convention 1 February 2005
Commercial octabromodiphenyl ether including: - Hexabromodiphenyl ether - Heptabromodiphenyl ether	36483-60-0 68928-80-3	Industrial	10 August 2013
Commercial pentabromodiphenyl ether including: - Tetrabromodiphenyl ether - Pentabromodiphenyl ether	40088-47-9 32534-81-9	Industrial	10 August 2013
Hexabromocyclododecane	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	Industrial	To be issued on 16 September 2019
Perfluorooctane sulfonic acid, perfluorooctane sulfonates, perfluorooctane sulfonamides and perfluorooctane sulfonyls including: - Perfluorooctane sulfonic acid - Potassium perfluorooctane sulfonate - Lithium perfluorooctane sulfonate - Ammonium perfluorooctane sulfonate - Diethanolammonium perfluorooctane sulfonate - Tetraethylammonium perfluorooctane sulfonate - Didecyltrimethylammonium perfluorooctane sulfonate - N-Ethylperfluorooctane sulfonamide - N-Methylperfluorooctane sulfonamide - N-Ethyl-N-(2-hydroxyethyl) perfluorooctane sulfonamide - N-(2-Hydroxyethyl)-N-methylperfluorooctane sulfonamide - Perfluorooctane sulfonyl fluoride	1763-23-1 2795-39-3 29457-72-5 29081-56-9 70225-14-8 56773-42-3 251099-16-8 4151-50-2 31506-32-8 1691-99-2 24448-09-7 307-35-7	Industrial	10 August 2013

Chemical name	CAS No.	Category	Date of first dispatch of decision guidance document
Polybrominated biphenyls (PBB)	36355-01-8 (hexa-) 27858-07-7 (octa-) 13654-09-6 (deca-)	Industrial	Prior to adoption of Convention
Polychlorinated biphenyls (PCB)	1336-36-3	Industrial	Prior to adoption of Convention
Polychlorinated terphenyls (PCT)	61788-33-8	Industrial	Prior to adoption of Convention
Short-chain chlorinated paraffins	85535-84-8	Industrial	15 September 2017
Tetraethyl lead	78-00-2	Industrial	1 February 2005
Tetramethyl lead	75-74-1	Industrial	1 February 2005
All tributyltin compounds including: - Tributyltin oxide - Tributyltin fluoride - Tributyltin methacrylate - Tributyltin benzoate - Tributyltin chloride - Tributyltin linoleate - Tributyltin naphthenate	56-35-9 1983-10-4 2155-70-6 4342-36-3 1461-22-9 24124-25-2 85409-17-2	Industrial	15 September 2017 <sup>4</sup>
Tris(2,3-dibromopropyl) phosphate	126-72-7	Industrial	Prior to adoption of Convention

**Notes:**

1. Only the CAS numbers of parent compounds are listed. For a list of other relevant CAS numbers, reference may be made to the relevant decision guidance document.
2. The date relates to the date for the communication of the decision guidance document for the chemical currently included in Annex III and adopted by decision RC-7/4, which amended Annex III to list methamidophos and deleted a previous entry in Annex III for “methamidophos (soluble liquid formulations of the substance that exceed 600 g active ingredient/L)”.
3. See the related entry for all tributyltin compounds within the industrial category. Tributyltin compounds were initially listed within the pesticide category by decision RC-4/5 and the initial decision guidance document communicated to Parties related solely to the pesticide category. Decision RC-8/5 subsequently amended Annex III to list all tributyltin compounds also in the industrial category, with the amendment entering into force on 15 September 2017. A revised decision guidance document was also approved (see note 4).
4. This entry refers to the date for communication of the revised decision guidance document for tributyltin compounds, which relates to both the pesticide and industrial categories, which was approved by decision RC-8/5.



**APPENDIX IV****LISTING OF ALL IMPORT RESPONSES RECEIVED FROM PARTIES AND CASES OF FAILURE TO SUBMIT RESPONSES**

All import responses received from Parties and cases of failure to submit responses are available on the Convention website: <http://www.pic.int/tabid/1370/language/en-US/Default.aspx>.

The online database is presented with four tabs:

1. Import responses recently transmitted;
2. Import responses by Party;
3. Import responses by Chemical;
4. Cases of failure to submit responses.

The import responses received since the last PIC Circular (between 1 November 2018 and 30 April 2019) may be viewed under the first tab “Import responses recently transmitted”. The overview of those import responses is available in this appendix.

All import responses, including latest and previously transmitted information, may be viewed under the second tab “Import responses by Party” or the third tab “Import responses by Chemical”.

The cases of failure to submit responses are available under the fourth tab “Cases of failure to submit responses”. It also includes the date on which the Secretariat first informed all Parties, through publication in the PIC Circular, of cases of failure to transmit a response.

## OVERVIEW OF NEW IMPORT RESPONSES RECEIVED SINCE THE LAST PIC CIRCULAR

### Pesticides

#### 2,4,5-T and its salts and esters

Montenegro

Nepal

#### Alachlor

Montenegro

Nepal

Zimbabwe

#### Aldicarb

Montenegro

Nepal

Suriname

Zimbabwe

#### Aldrin

Montenegro

Zimbabwe

#### Azinphos-methyl

Colombia

Montenegro

Nepal

Suriname

#### Binapacryl

Montenegro

Nepal

Suriname

#### Captafol

Montenegro

Nepal

Zimbabwe

#### Carbofuran

Bosnia and Herzegovina

Canada

Colombia

Equatorial Guinea

Guyana

Montenegro

Nepal

North Macedonia

Suriname

#### Chlordane

Montenegro

#### Chlordimeform

Montenegro

#### Chlorobenzilate

Montenegro

Nepal

#### DDT

Montenegro

#### Dieldrin

Montenegro

Zimbabwe

#### Dinitro-ortho-cresol (DNOC) and its salts (such as ammonium salt, potassium salt and sodium salt)

Montenegro

Nepal

Suriname

Zimbabwe

#### Dinoseb and its salts and esters

Montenegro

#### 1,2-dibromoethane (EDB)

Montenegro

#### Endosulfan

Canada

Montenegro

Nepal

Zimbabwe

#### Ethylene dichloride

Montenegro

Nepal

Zimbabwe

#### Ethylene oxide

Montenegro

Nepal

Zimbabwe

#### Fluoroacetamide

Montenegro

#### HCH (mixed isomers)

Montenegro

#### Heptachlor

Montenegro

#### Hexachlorobenzene

Montenegro

Nepal

#### Lindane

Montenegro

Nepal

**Mercury compounds, including inorganic mercury compounds, alkyl mercury compounds and alkyloxyalkyl and aryl mercury compounds**

Montenegro

**Methamidophos**

Canada

Colombia

Montenegro

Nepal

Suriname

Zimbabwe

**Monocrotophos**

Montenegro

Nepal

**Parathion**

Equatorial Guinea

Montenegro

Nepal

Zimbabwe

**Pentachlorophenol and its salts and esters**

Montenegro

Nepal

**Toxaphene**

Montenegro

Nepal

Suriname

Zimbabwe

**All tributyltin compounds**

Canada

Montenegro

Nepal

Zimbabwe

**Trichlorfon**

Bosnia and Herzegovina

Canada

Colombia

Equatorial Guinea

Guyana

Montenegro

Nepal

North Macedonia

Suriname

Zimbabwe

**Severely hazardous pesticide formulations****Dustable powder formulations containing a combination of benomyl at or above 7%, carbofuran at or above 10% and thiram at or above 15%**

Montenegro

Nepal

Suriname

Zimbabwe

**Phosphamidon (Soluble liquid formulations of the substance that exceed 1000 g active ingredient/l)**

Montenegro

Nepal

**Methyl-parathion (Emulsifiable concentrates (EC) at or above 19.5% active ingredient and dusts at or above 1.5% active ingredient)**

Colombia

Equatorial Guinea

Montenegro

Nepal

## Industrial Chemicals

### Actinolite asbestos

Canada<sup>1</sup>  
Cuba<sup>2</sup>  
Montenegro  
Suriname

### Amosite asbestos

Canada<sup>1</sup>  
Cuba<sup>2</sup>  
Montenegro  
Suriname

### Anthophyllite asbestos

Canada<sup>1</sup>  
Cuba<sup>2</sup>  
Montenegro  
Suriname

### Crocidolite asbestos

Canada<sup>1</sup>  
Cuba<sup>2</sup>  
Montenegro  
Suriname

### Tremolite asbestos

Canada<sup>1</sup>  
Cuba<sup>2</sup>  
Montenegro  
Suriname

### Commercial octabromodiphenyl ether (including hexabromodiphenyl ether and heptabromodiphenyl ether)

Cuba  
Montenegro  
Suriname

### Commercial pentabromodiphenyl ether (including tetrabromodiphenyl ether and pentabromodiphenyl ether)

Cuba  
Montenegro  
Suriname

### Perfluorooctane sulfonic acid, perfluorooctane sulfonates, perfluorooctane sulfonamides and perfluorooctane sulfonyls

Cuba  
Montenegro  
Suriname

### Polybrominated biphenyls (PBB)

Cuba<sup>2</sup>  
Montenegro  
Suriname

### Polychlorinated biphenyls (PCB)

Cuba<sup>2</sup>  
Montenegro

### Polychlorinated terphenyls (PCT)

Cuba<sup>2</sup>  
Montenegro  
Suriname

### Short-chain chlorinated paraffins

Cuba  
Equatorial Guinea  
Georgia  
Guyana  
Montenegro  
North Macedonia  
Panama  
Suriname

### Tetraethyl lead

Cuba<sup>2</sup>  
Montenegro  
Suriname

### Tetramethyl lead

Cuba<sup>2</sup>  
Montenegro  
Suriname

### All tributyltin compounds

Cuba  
Georgia  
Montenegro  
North Macedonia  
Panama  
Suriname

### Tris(2,3-dibromopropyl) phosphate

Cuba<sup>2</sup>  
Montenegro  
Suriname

#### Notes:

1. A revision to the import response published in PIC Circular XXXV (June 2012).
2. A revision to the import response published in PIC Circular XXVIII (December 2008).



**APPENDIX V****NOTIFICATIONS OF FINAL REGULATORY ACTION FOR CHEMICALS NOT LISTED  
IN ANNEX III**

This appendix consists of two parts:

**Part A: Notifications of final regulatory action for chemicals not listed in Annex III and verified as containing all the information required by Annex I to the Convention**

The table lists all the notifications received during the interim PIC procedure and the current PIC procedure (September 1998 to 30 April 2019) verified as containing all the information required by Annex I to the Convention.

**Part B: Notifications of final regulatory action for chemicals not listed in Annex III and verified as not containing all the information required by Annex I to the Convention**

The table lists all the notifications received during the interim PIC procedure and the current PIC procedure (September 1998 to 30 April 2019) verified as not containing all the information required by Annex I to the Convention.

The information is also available on the Convention website.<sup>19</sup>

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<sup>19</sup> <http://www.pic.int/tabid/1368/language/en-US/Default.aspx>.

**Notifications of final regulatory action for chemicals not listed in Annex III**

**PART A**

**NOTIFICATIONS OF FINAL REGULATORY ACTION FOR CHEMICALS NOT LISTED  
IN ANNEX III AND VERIFIED AS CONTAINING ALL THE INFORMATION  
REQUIRED BY ANNEX I TO THE CONVENTION**

Chemical name	CAS No.	Category	Country	Region	PIC Circular
1,1,1,2-Tetrachloroethane	630-20-6	Industrial	Latvia	Europe	XX
1,1,1-Trichloroethane	71-55-6	Industrial	Latvia	Europe	XX
1,1,2,2-Tetrachloroethane	79-34-5	Industrial	Latvia	Europe	XX
1,1,2-Trichloroethane	79-00-5	Industrial	Latvia	Europe	XX
1,1-Dichloroethylene	75-35-4	Industrial	Latvia	Europe	XX
1,3-Dichloropropene	542-75-6	Pesticide	European Union	Europe	XXXVI
2- Nitrobenzaldehyde	552-89-6	Industrial	Latvia	Europe	XX
2,4,5-TP (Silvex; Fenoprop)	93-72-1	Pesticide	Thailand	Asia	XIV
2,4,6-Tri- <i>tert</i> -butylphenol	732-26-3	Industrial	Japan	Asia	XXI
2,4-D	94-75-7	Pesticide	Norway	Europe	XIII
2-Ethyl-1,3-hexanediol	94-96-2	Pesticide	Thailand	Asia	XX
2-Naphthylamine	91-59-8	Industrial	Japan	Asia	XXI
2-Naphthylamine	91-59-8	Industrial	Republic of Korea	Asia	XX
2-Naphthylamine	91-59-8	Industrial	Latvia	Europe	XX
2-Naphthylamine	91-59-8	Industrial	Switzerland	Europe	XXIII
2-Propen-1-ol, reaction products with pentafluoroiodoethane tetrafluoroethylene telomer, dehydroiodinated, reaction products with epichlorohydrin and triethylenetetramine	464178-90-3	Industrial	Canada	North America	XLI
2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with butyl 2-propenoate and 2,5 furandione, gamma-omega-perfluoro-C <sub>8-14</sub> -alkyl esters, <i>tert</i> -Bu benzenecarboperoxoate-initiated	459415-06-6	Industrial	Canada	North America	XLI
2-Propenoic acid, 2-methyl-, hexadecyl ester, polymers with 2-hydroxyethyl methacrylate, gamma-omega-perfluoro-C <sub>10-16</sub> -alkyl acrylate and stearyl methacrylate	203743-03-7	Industrial	Canada	North America	XLI
4-Aminobiphenyl	92-67-1	Industrial	Republic of Korea	Asia	XX
4-Aminobiphenyl	92-67-1	Industrial	Japan	Asia	XXI
4-Aminobiphenyl	92-67-1	Industrial	Latvia	Europe	XX
4-Aminobiphenyl	92-67-1	Industrial	Switzerland	Europe	XXIII
4-Nitrobiphenyl	92-93-3	Industrial	Japan	Asia	XXI
4-Nitrobiphenyl	92-93-3	Industrial	Latvia	Europe	XX
4-Nitrobiphenyl	92-93-3	Industrial	Switzerland	Europe	XXIII
Acephate	30560-19-1	Pesticide	European Union	Europe	XVIII
Acetochlor	34256-82-1	Pesticide	Burkina Faso	Africa	XLV
Acetochlor	34256-82-1	Pesticide	Cabo Verde	Africa	XLV

Chemical name	CAS No.	Category	Country	Region	PIC Circular
Acetochlor	34256-82-1	Pesticide	Chad	Africa	XLV
Acetochlor	34256-82-1	Pesticide	Gambia	Africa	XLV
Acetochlor	34256-82-1	Pesticide	Guinea-Bissau	Africa	XLV
Acetochlor	34256-82-1	Pesticide	Mali	Africa	XLV
Acetochlor	34256-82-1	Pesticide	Mauritania	Africa	XLV
Acetochlor	34256-82-1	Pesticide	Niger	Africa	XLV
Acetochlor	34256-82-1	Pesticide	Senegal	Africa	XLV
Acetochlor	34256-82-1	Pesticide	Togo	Africa	XLV
Acetochlor	34256-82-1	Pesticide	European Union	Europe	XLV
Acetochlor	34256-82-1	Pesticide	Bosnia and Herzegovina	Europe	XLIX
Allyl alcohol	107-18-6	Pesticide	Canada	North America	XXII
Alpha hexachlorocyclohexane	319-84-6	Pesticide	China	Asia	XLV
Alpha hexachlorocyclohexane	319-84-6	Industrial	Japan	Asia	XXXII
Alpha hexachlorocyclohexane	319-84-6	Pesticide	Japan	Asia	XXXIII
Aluminium phosphide	20859-73-8	Pesticide & Industrial	Japan	Asia	XX
Aminopyralid	150114-71-9	Pesticide	Norway	Europe	XXXIII
Amitraz	33089-61-1	Pesticide	Iran (Islamic Republic of)	Asia	XXX
Amitraz	33089-61-1	Pesticide	European Union	Europe	XXI
Amitraz	33089-61-1	Pesticide	Syrian Arab Republic	Near East	XXXII
Amitrole	61-82-5	Pesticide	Thailand	Asia	XX
Amitrole	61-82-5	Pesticide	European Union	Europe	XLIX
Ammonium hydrogen sulfide	12124-99-1	Industrial	Latvia	Europe	XX
Ammonium polysulfide	9080-17-5	Industrial	Latvia	Europe	XX
Anthracene oil	90640-80-5	Industrial	Latvia	Europe	XX
Aramite	140-57-8	Pesticide	Thailand	Asia	XIV
Arsenic compounds	7440-38-2	Industrial	Latvia	Europe	XX
Arsenic pentoxide	1303-28-2	Industrial	Republic of Korea	Asia	XX
Atrazine	1912-24-9	Pesticide	Cabo Verde	Africa	XLI
Atrazine	1912-24-9	Pesticide	Chad	Africa	XLI
Atrazine	1912-24-9	Pesticide	Gambia	Africa	XLI
Atrazine	1912-24-9	Pesticide	Mauritania	Africa	XLI
Atrazine	1912-24-9	Pesticide	Niger	Africa	XLI
Atrazine	1912-24-9	Pesticide	Senegal	Africa	XLI
Atrazine	1912-24-9	Pesticide	Togo	Africa	XLI
Atrazine	1912-24-9	Pesticide	European Union	Europe	XXI
Azinphos-ethyl	2642-71-9	Pesticide	Iran (Islamic Republic of)	Asia	XLVI
Azinphos-ethyl	2642-71-9	Pesticide	Thailand	Asia	XIV
Benfuracarb	82560-54-1	Pesticide	European Union	Europe	XXXV
Bentazon	25057-89-0	Pesticide	Norway	Europe	XIII
Benzene	71-43-2	Industrial	Latvia	Europe	XX
Benzidine	92-87-5	Industrial	Republic of Korea	Asia	XX
Benzidine	92-87-5	Industrial	Latvia	Europe	XX
Benzidine	92-87-5	Industrial	Jordan	Near East	XLII

Chemical name	CAS No.	Category	Country	Region	PIC Circular
Benzidine	92-87-5	Industrial	Canada	North America	XXI
Benzidine	92-87-5	Industrial	Canada	North America	XXVIII
Benzidine and its salts	92-87-5	Industrial	India	Asia	XX
Benzidine and its salts	92-87-5	Industrial	Japan	Asia	XXI
Benzidine and its salts	92-87-5	Industrial	Switzerland	Europe	XXIII
Benzidine and its salts	92-87-5	Industrial	Jordan	Near East	XVIII
Beta hexachlorocyclohexane	319-85-7	Pesticide	China	Asia	XLV
Beta hexachlorocyclohexane	319-85-7	Industrial	Japan	Asia	XXXII
Beta hexachlorocyclohexane	319-85-7	Pesticide	Japan	Asia	XXXIII
Beta hexachlorocyclohexane	319-85-7	Pesticide	Thailand	Asia	XX
Bifenthrin	82657-04-3	Pesticide	Netherlands	Europe	XIV
Bis(2-chloroethyl)ether	111-44-4	Industrial	Republic of Korea	Asia	XX
Bis(chloromethyl)ether	542-88-1	Industrial	Japan	Asia	XXI
Bis(chloromethyl)ether	542-88-1	Industrial	Republic of Korea	Asia	XX
Bis(chloromethyl)ether	542-88-1	Industrial	Canada	North America	XII
Bitertanol	55179-31-2	Pesticide	Norway	Europe	XXXV
Bromobenzylbromotoluene (DBBT)	99688-47-8	Industrial	Latvia	Europe	XX
Bromobenzylbromotoluene (DBBT)	99688-47-8	Industrial	Switzerland	Europe	XXIII
Bromochlorodifluoromethane (Halon 1211)	353-59-3	Industrial	Canada	North America	XIII
Bromochloromethane	74-97-5	Industrial	Thailand	Asia	XXIV
Bromotrifluoromethane	75-63-8	Industrial	Canada	North America	XII
Bromoxynil octanoate	1689-99-2	Pesticide	Norway	Europe	XIV
Bromuconazole	116255-48-2	Pesticide	Norway	Europe	XIII
Butralin	33629-47-9	Pesticide	European Union	Europe	XXXIII
Cadmium	7440-43-9	Industrial	Latvia	Europe	XX
Cadusafos	95465-99-9	Pesticide	European Union	Europe	XXXVI
Calcium arsenate	7778-44-1	Pesticide	Thailand	Asia	XIV
Carbaryl	63-25-2	Pesticide	European Union	Europe	XXVI
Carbaryl	63-25-2	Pesticide	Jordan	Near East	XVIII
Carbaryl	63-25-2	Pesticide	Syrian Arab Republic	Near East	XXXII
Carbon tetrachloride	56-23-5	Industrial	Republic of Korea	Asia	XX
Carbon tetrachloride	56-23-5	Pesticide	Thailand	Asia	XX
Carbon tetrachloride	56-23-5	Industrial	Latvia	Europe	XX
Carbon tetrachloride	56-23-5	Pesticide & Industrial	Switzerland	Europe	XXI
Carbon tetrachloride	56-23-5	Industrial	Jordan	Near East	XLIV
Carbon tetrachloride	56-23-5	Pesticide & Industrial	Canada	North America	XII
Carbosulfan	55285-14-8	Pesticide	Burkina Faso	Africa	XLI
Carbosulfan	55285-14-8	Pesticide	Cabo Verde	Africa	XLI
Carbosulfan	55285-14-8	Pesticide	Chad	Africa	XLI
Carbosulfan	55285-14-8	Pesticide	Gambia	Africa	XLI
Carbosulfan	55285-14-8	Pesticide	Mauritania	Africa	XLI
Carbosulfan	55285-14-8	Pesticide	Niger	Africa	XLI

Chemical name	CAS No.	Category	Country	Region	PIC Circular
Carbosulfan	55285-14-8	Pesticide	Senegal	Africa	XLI
Carbosulfan	55285-14-8	Pesticide	Togo	Africa	XLI
Carbosulfan	55285-14-8	Pesticide	European Union	Europe	XXXV
Chloral hydrate	302-17-0	Pesticide	Netherlands	Europe	XIV
Chlorates (including but not limited to Na, Mg, K chlorates)	7775-09-9, 10326-21-3, 3811-04-9 and others	Pesticide	European Union	Europe	XXXVIII
Chlordecone	143-50-0	Pesticide	China	Asia	XLV
Chlordecone	143-50-0	Industrial	Japan	Asia	XXXII
Chlordecone	143-50-0	Pesticide	Japan	Asia	XXXIII
Chlordecone	143-50-0	Pesticide	Thailand	Asia	XIV
Chlordecone	143-50-0	Pesticide	Switzerland	Europe	XX
Chlordecone	143-50-0	Pesticide	Peru	Latin America and the Caribbean	XLV
Chlorfenapyr	122453-73-0	Pesticide	European Union	Europe	XVIII
Chlorfenvinphos	470-90-6	Pesticide	Norway	Europe	XIII
Chlornitrofen	1836-77-7	Pesticide	Japan	Asia	XX
Chloroethylene	75-01-4	Industrial	Latvia	Europe	XX
Chlorofluorocarbon (totally halogenated)	75-69-4, 75-71-8, 76-13-1, 76-14-2, 76-15-3	Industrial	Canada	North America	XII
Chloroform	67-66-3	Industrial	Latvia	Europe	XX
Chloromethyl methyl ether	107-30-2	Industrial	Canada	North America	XXVIII
Chlorpyrifos	2921-88-2	Pesticide	Sri Lanka	Asia	XLIX
Chlorsulfuron	64902-72-3	Pesticide	Norway	Europe	XIII
Chlorthal-dimethyl	1861-32-1	Pesticide	European Union	Europe	XXXVII
Chlorthiophos	60238-56-4	Pesticide	Thailand	Asia	XIV
Chlozolate	84332-86-5	Pesticide	European Union	Europe	XVI
Chrysotile asbestos	12001-29-5	Industrial	South Africa	Africa	XXX
Chrysotile asbestos	12001-29-5	Industrial	Japan	Asia	XXX
Chrysotile asbestos	12001-29-5	Industrial	Japan	Asia	XXV
Chrysotile asbestos	12001-29-5	Industrial	European Union	Europe	XIII
Chrysotile asbestos	12001-29-5	Industrial	Latvia	Europe	XX
Chrysotile asbestos	12001-29-5	Industrial	Switzerland	Europe	XXI
Chrysotile asbestos	12001-29-5	Industrial	Bulgaria	Europe	XXII
Chrysotile asbestos	12001-29-5	Industrial	Chile	Latin America and the Caribbean	XV
Chrysotile asbestos	12001-29-5	Industrial	Canada	North America	XLIX
Chrysotile asbestos	12001-29-5	Industrial	Australia	Southwest Pacific	XIX
Creosote	8001-58-9	Industrial	Latvia	Europe	XX
Creosote oil	61789-28-4	Industrial	Latvia	Europe	XX
Creosote oil, acenaphthene fraction	90640-84-9	Industrial	Latvia	Europe	XX
Creosote, wood	8021-39-4	Industrial	Latvia	Europe	XX
Cycloheximide	66-81-9	Pesticide	Thailand	Asia	XIV
Cyhexatin	13121-70-5	Pesticide	Japan	Asia	XX

Chemical name	CAS No.	Category	Country	Region	PIC Circular
Cyhexatin	13121-70-5	Pesticide	Brazil	Latin America and the Caribbean	XXXVI
Cyhexatin	13121-70-5	Pesticide	Canada	North America	XXII
DDD	72-54-8	Pesticide	Thailand	Asia	XX
Decabromodiphenyl ether	1163-19-5	Industrial	Japan	Asia	XLVIII
Decabromodiphenyl ether	1163-19-5	Industrial	Norway	Europe	XXXIX
Polybrominated diphenyl ethers (PBDEs)	40088-47-9**, 32534-81-9**, 36483-60-0**, 68928-80-3**, 32536-52-0, 63936-56-1, 1163-19-5	Industrial	Canada	North America	XLVIII
Demephion- <i>O</i>	682-80-4	Pesticide	Thailand	Asia	XIV
Demeton-methyl (isomeric mixture of demeton- <i>O</i> -methyl and demeton- <i>S</i> -methyl)	8022-00-2, 867-27-6, 919-86-8	Pesticide & Industrial	Japan	Asia	XX
Diazinon	333-41-5	Pesticide	European Union	Europe	XXXII
DBCP (1,2-dibromo-3-chloropropano)	96-12-8	Pesticide	Thailand	Asia	XIV
DBCP (1,2-dibromo-3-chloropropano)	96-12-8	Pesticide	Colombia	Latin America and the Caribbean	XLV
DBCP (1,2-dibromo-3-chloropropano)	96-12-8	Pesticide	Canada	North America	XXII
Dibromotetrafluoroethane	124-73-2	Industrial	Canada	North America	XIII
Dibutyltin hydrogen borate (DBB)	75113-37-0	Industrial	Latvia	Europe	XX
Dichlobenil	1194-65-6	Pesticide	European Union	Europe	XXXVI
Dichlobenil	1194-65-6	Pesticide	Norway	Europe	XII
Dichloro[(dichlorophenyl)methyl]methylbenzene	76253-60-6	Industrial	Latvia	Europe	XX
Dichloro[(dichlorophenyl)methyl]methylbenzene	76253-60-6	Industrial	Switzerland	Europe	XXIII
Dichlorobenzyltoluene	81161-70-8	Industrial	Switzerland	Europe	XXIII
Dichlorophen	97-23-4	Pesticide	Thailand	Asia	XIV
Dichlorvos	62-73-7	Pesticide	European Union	Europe	XXXIV
Dicloran	99-30-9	Pesticide	European Union	Europe	XXXVI
Dicofol	115-32-2	Industrial	Japan	Asia	XXII
Dicofol	115-32-2	Industrial	Japan	Asia	XXXII
Dicofol	115-32-2	Pesticide	Japan	Asia	XXXIII
Dicofol	115-32-2	Pesticide	Netherlands	Europe	XXII
Dicofol	115-32-2	Pesticide	Romania	Europe	XX
Dicofol	115-32-2	Pesticide	Switzerland	Europe	XXIV
Dicofol	115-32-2	Pesticide	European Union	Europe	XXXIII
Dicrotophos	141-66-2	Pesticide	Jordan	Near East	XVIII
Dimefox	115-26-4	Pesticide	Thailand	Asia	XIV
Dimefox	115-26-4	Pesticide	Jordan	Near East	XVIII
Dimethenamid	87674-68-8	Pesticide	European Union	Europe	XXXVII
Diniconazole- <i>M</i>	83657-18-5	Pesticide	European Union	Europe	XXXIV
Dinoterb	1420-07-1	Pesticide	Thailand	Asia	XIV
Dinoterb	1420-07-1	Pesticide	European Union	Europe	XIV

Chemical name	CAS No.	Category	Country	Region	PIC Circular
Dinoterb	1420-07-1	Pesticide	Switzerland	Europe	XX
Diphenylamine	122-39-4	Pesticide	European Union	Europe	XXXIX
Distillates (coal tar), naphthalene oils	84650-04-4	Industrial	Latvia	Europe	XX
Distillates (coal tar), upper	65996-91-0	Industrial	Latvia	Europe	XX
Disulfoton	298-04-4	Pesticide	Thailand	Asia	XIV
Endosulfan	115-29-7**, 959-98-8, 33213-65-9	Pesticide* & Industrial	Japan	Asia	XLIV
Endrin	72-20-8	Pesticide & Industrial	Japan	Asia	XX
Endrin	72-20-8	Pesticide & Industrial	Republic of Korea	Asia	XX
Endrin	72-20-8	Pesticide	Bulgaria	Europe	XXII
Endrin	72-20-8	Pesticide	Romania	Europe	XX
Endrin	72-20-8	Pesticide	Switzerland	Europe	XX
Endrin	72-20-8	Pesticide	Peru	Latin America and the Caribbean	XIII
Endrin	72-20-8	Pesticide	Guyana	Latin America and the Caribbean	XXVI
Endrin	72-20-8	Pesticide	Uruguay	Latin America and the Caribbean	XXVIII
Endrin	72-20-8	Pesticide	Jordan	Near East	XVIII
Endrin	72-20-8	Pesticide	Canada	North America	XXII
Epoxiconazole	106325-08-0	Pesticide	Norway	Europe	XIII
EPTC	759-94-4	Pesticide	Norway	Europe	XIII
Ethylbromoacetate	105-36-2	Industrial	Latvia	Europe	XX
Extract residues (coal), low temp. coal tar alk	122384-78-5	Industrial	Latvia	Europe	XX
Fenarimol	60168-88-9	Pesticide	European Union	Europe	XXXVII
Fenitrothion	122-14-5	Pesticide	European Union	Europe	XXXII
Fensulfothion	115-90-2	Pesticide	Thailand	Asia	XIV
Fenthion	55-38-9	Pesticide	European Union	Europe	XXII
Fentin acetate	900-95-8	Pesticide	European Union	Europe	XVI
Fentin hydroxide	76-87-9	Pesticide	European Union	Europe	XVI
Ferbam	14484-64-1	Pesticide	Canada	North America	XLIX
Fipronil	120068-37-3	Pesticide	Cabo Verde	Africa	XLI
Fipronil	120068-37-3	Pesticide	Chad	Africa	XLI
Fipronil	120068-37-3	Pesticide	Gambia	Africa	XLI
Fipronil	120068-37-3	Pesticide	Mauritania	Africa	XLI
Fipronil	120068-37-3	Pesticide	Niger	Africa	XLI
Fipronil	120068-37-3	Pesticide	Senegal	Africa	XLI
Fipronil	120068-37-3	Pesticide	Togo	Africa	XLI
Fluazifop- <i>P</i> -butyl	79241-46-6	Pesticide	Norway	Europe	XIII
Fluazinam	79622-59-6	Pesticide	Norway	Europe	XXXII
Flufenoxuron	101463-69-8	Pesticide	European Union	Europe	XXXIX
Fluopicolide	239110-15-7	Pesticide	Norway	Europe	XLIII
Fluoroacetic acid	144-49-0	Pesticide & Industrial	Japan	Asia	XX

Chemical name	CAS No.	Category	Country	Region	PIC Circular
Flurprimidol	56425-91-3	Pesticide	European Union	Europe	XXXVI
Folpet	133-07-3	Pesticide	Malaysia	Asia	XII
Fonofos	944-22-9	Pesticide	Thailand	Asia	XIV
Furfural	98-01-1	Pesticide	Canada	North America	XXII
Hexabromocyclododecane	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	Industrial	China	Asia	XLV
Hexabromocyclododecane	25637-99-4	Industrial	Japan	Asia	XLIV
Hexabromocyclododecane	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	Industrial	Norway	Europe	XLIV
Hexabromocyclododecane	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	Industrial	Canada	North America	XLVII
Hexachlorobutadiene	87-68-3	Industrial	Japan	Asia	XXII
Hexachlorobenzene	118-74-1**	Industrial	China	Asia	XLII
Hexachlorobenzene	118-74-1**	Pesticide* & Industrial	Japan	Asia	XX
Hexachloroethane	67-72-1	Industrial	Latvia	Europe	XX
Hexachlorobenzene	118-74-1**	Pesticide* & Industrial	Panama	Latin America and the Caribbean	XIX
Hexachlorobutadiene	87-68-3	Industrial	Canada	North America	XXVIII
Hexachlorobenzene	118-74-1**	Industrial	Canada	North America	XXVIII
Hexane, 1,6-diisocyanato-, homopolymer, reaction products with alpha-fluoro-omega-2- hydroxyethyl- poly(difluoromethylene), C <sub>16-20</sub> - branched alcohols and 1-octadecanol	Not available	Industrial	Canada	North America	XLI
Hexazinone	51235-04-2	Pesticide	Burkina Faso	Africa	XLV
Hexazinone	51235-04-2	Pesticide	Cabo Verde	Africa	XLV
Hexazinone	51235-04-2	Pesticide	Chad	Africa	XLV
Hexazinone	51235-04-2	Pesticide	Gambia	Africa	XLV
Hexazinone	51235-04-2	Pesticide	Guinea-Bissau	Africa	XLV
Hexazinone	51235-04-2	Pesticide	Mali	Africa	XLV
Hexazinone	51235-04-2	Pesticide	Mauritania	Africa	XLV
Hexazinone	51235-04-2	Pesticide	Niger	Africa	XLV
Hexazinone	51235-04-2	Pesticide	Senegal	Africa	XLV
Hexazinone	51235-04-2	Pesticide	Togo	Africa	XLV
Hexazinone	51235-04-2	Pesticide	Norway	Europe	XIII
Imazalil	35554-44-0	Pesticide	Norway	Europe	XIII
Imazapyr	81334-34-1	Pesticide	Norway	Europe	XIV
Isodrin	465-73-6	Pesticide	Switzerland	Europe	XX
Isopyrazam	881685-58-1	Pesticide	Norway	Europe	XXXVII



Chemical name	CAS No.	Category	Country	Region	PIC Circular
Kelevan	4234-79-1	Pesticide	Switzerland	Europe	XX
Lead arsenate	7784-40-9	Pesticide	Japan	Asia	XX
Lead arsenate	7784-40-9	Pesticide	Peru	Latin America and the Caribbean	XXXV
Lead carbonate	598-63-0	Industrial	Latvia	Europe	XX
Lead carbonate	598-63-0	Industrial	Jordan	Near East	XXXVI
Lead hydroxycarbonate	1319-46-6	Industrial	Latvia	Europe	XX
Lead sulfate	15739-80-7	Industrial	Latvia	Europe	XX
Lead(II)sulfate	7446-14-2	Industrial	Latvia	Europe	XX
Linuron	330-55-2	Pesticide	Norway	Europe	XXVI
Malathion	121-75-5	Pesticide	Syrian Arab Republic	Near East	XXXII
Maleic hydrazide	123-33-1	Pesticide	Romania	Europe	XX
MCPA-thioethyl(phenothiol)	25319-90-8	Pesticide	Thailand	Asia	XIV
MCPB	94-81-5	Pesticide	Thailand	Asia	XIV
Mecoprop	7085-19-0	Pesticide	Thailand	Asia	XIV
Mephosfolan	950-10-7	Pesticide	Thailand	Asia	XIV
Mepiquat chloride	24307-26-4	Pesticide	Norway	Europe	XIII
Mercurous chloride (Calomel)	10112-91-1	Pesticide	Romania	Europe	XX
Mercury	7439-97-6	Industrial	Sweden	Europe	XLIX
Metaldehyde	108-62-3, 9002-91-9	Pesticide	Norway	Europe	XLVII
Methazole	20354-26-1	Pesticide	Australia	Southwest Pacific	XII
Methyl bromide	74-83-9	Pesticide	Malawi	Africa	XXX
Methyl bromide	74-83-9	Pesticide & Industrial	Republic of Korea	Asia	XX
Methyl bromide	74-83-9	Pesticide	Netherlands	Europe	XV
Methyl bromide	74-83-9	Pesticide & Industrial	Switzerland	Europe	XXI
Methyl bromoacetate	96-32-2	Industrial	Latvia	Europe	XX
Methyl cellosolve	109-86-4	Industrial	Canada	North America	XXVIII
Methyl parathion	298-00-0	Pesticide	Côte d'Ivoire	Africa	XX
Methyl parathion	298-00-0	Pesticide	Gambia	Africa	XIX
Methyl parathion	298-00-0	Pesticide	Nigeria	Africa	XXI
Methyl parathion	298-00-0	Pesticide & Industrial	Japan	Asia	XX
Methyl parathion	298-00-0	Pesticide	Thailand	Asia	XXI
Methyl parathion	298-00-0	Pesticide	Bulgaria	Europe	XXII
Methyl parathion	298-00-0	Pesticide	European Union	Europe	XVIII
Methyl parathion	298-00-0	Pesticide	Brazil	Latin America and the Caribbean	XX
Methyl parathion	298-00-0	Pesticide	Dominican Republic	Latin America and the Caribbean	XXV
Methyl parathion	298-00-0	Pesticide	El Salvador	Latin America and the Caribbean	XX
Methyl parathion	298-00-0	Pesticide	Guyana	Latin America and the Caribbean	XXVI
Methyl parathion	298-00-0	Pesticide	Panama	Latin America and the Caribbean	XIX

Chemical name	CAS No.	Category	Country	Region	PIC Circular
Methyl parathion	298-00-0	Pesticide	Panama	Latin America and the Caribbean	XLVII
Methyl parathion	298-00-0	Pesticide	Uruguay	Latin America and the Caribbean	XXVIII
Mevinphos	26718-65-0	Pesticide	Thailand	Asia	XIV
Mevinphos	26718-65-0	Pesticide	Jordan	Near East	XVIII
MGK Repellent 11	126-15-8	Pesticide	Thailand	Asia	XX
Mirex	2385-85-5	Pesticide & Industrial	Japan	Asia	XXI
Mirex	2385-85-5	Pesticide	Thailand	Asia	XX
Mirex	2385-85-5	Pesticide	Bulgaria	Europe	XXII
Mirex	2385-85-5	Pesticide & Industrial	Switzerland	Europe	XXIII
Mirex	2385-85-5	Pesticide	Colombia	Latin America and the Caribbean	XLV
Mirex	2385-85-5	Pesticide	Cuba	Latin America and the Caribbean	XXVIII
Mirex	2385-85-5	Pesticide	Guyana	Latin America and the Caribbean	XXVI
Mirex	2385-85-5	Pesticide	Uruguay	Latin America and the Caribbean	XXVIII
Mirex	2385-85-5	Industrial	Canada	North America	XII
Mirex	2385-85-5	Industrial	Canada	North America	XXVIII
Monomethyl dichlorodiphenyl methane	122808-61-1	Industrial	Latvia	Europe	XX
N,N'-Ditolyl- <i>p</i> -phenylenediamine; N,N'-Dixyl- <i>p</i> -phenylenediamine; N-Tolyl-N'-xylyl- <i>p</i> -phenylenediamine	27417-40-9, 28726-30-9, 70290-05-0	Industrial	Japan	Asia	XXI
Naled	300-76-5	Pesticide	European Union	Europe	XXXIX
NCC ether	94097-88-8	Industrial	Canada	North America	XXVIII
Nickel	7440-02-0	Industrial	Latvia	Europe	XX
Nitrofen	1836-75-5	Pesticide	European Union	Europe	XVI
Nitrofen	1836-75-5	Pesticide	Romania	Europe	XX
N-Nitrosodimethylamine	62-75-9	Industrial	Canada	North America	XXVIII
Nonylphenol	11066-49-2, 25154-52-3, 84852-15-3, 90481-04-2	Pesticide & Industrial	European Union	Europe	XXIII
Nonylphenol ethoxylate	127087-87-0, 26027-38-3, 37205-87-1, 68412-54-4, 9016-45-9	Pesticide & Industrial	European Union	Europe	XXIII

Chemical name	CAS No.	Category	Country	Region	PIC Circular
Nonylphenols and nonylphenol ethoxylates	104-40-5, 11066-49-2, 127087-87-0, 25154-52-3, 26027-38-3, 37205-87-1, 68412-54-4, 84852-15-3, 9016-45-9, 90481-04-2	Pesticide	South Africa	Africa	XLVI
Nonylphenols and nonylphenol ethoxylates	104-40-5, 11066-49-2, 25154-52-3, 84852-15-3, 90481-04-2, 127087-87-0, 26027-38-3, 37205-87-1, 68412-54-4, 9016-45-9	Pesticide & Industrial	Switzerland	Europe	XXXVI
Octylphenols and octylphenol ethoxylates	140-66-9	Pesticide & Industrial	Switzerland	Europe	XXXVI
Oxydemeton-methyl	301-12-2	Pesticide	European Union	Europe	XXX
Paraquat	4685-14-7	Pesticide	Togo	Africa	XLII
Paraquat	4685-14-7	Pesticide	Sri Lanka	Asia	XXVIII
Paraquat	4685-14-7	Pesticide	Sweden	Europe	XXIII
Paraquat dichloride	1910-42-5	Pesticide	Burkina Faso	Africa	XXXV
Paraquat dichloride	1910-42-5	Pesticide	Cabo Verde	Africa	XXXV
Paraquat dichloride	1910-42-5	Pesticide	Chad	Africa	XXXV
Paraquat dichloride	1910-42-5	Pesticide	Mali	Africa	XXXV
Paraquat dichloride	1910-42-5	Pesticide	Mauritania	Africa	XXXV
Paraquat dichloride	1910-42-5	Pesticide	Niger	Africa	XXXV
Paraquat dichloride	1910-42-5	Pesticide	Senegal	Africa	XXXV
Paraquat dichloride	1910-42-5	Pesticide	Sweden	Europe	XXIII
Paraquat dichloride	1910-42-5	Pesticide	Uruguay	Latin America and the Caribbean	XXVIII
Paraquat dimethyl,bis	2074-50-2	Pesticide	Sweden	Europe	XXIII
Paris green	12002-03-8	Pesticide	Thailand	Asia	XIV
Pendimethalin	40487-42-1	Pesticide	Norway	Europe	XXV
Pentachlorobenzene	608-93-5	Pesticide	China	Asia	XLV
Pentachlorobenzene	608-93-5	Industrial	Japan	Asia	XXXII
Pentachlorobenzene	608-93-5	Pesticide	Japan	Asia	XXXIII
Pentachloroethane	76-01-7	Industrial	Latvia	Europe	XX
Pentachlorobenzene	608-93-5	Industrial	Canada	North America	XXVIII
Pentachlorophenol and its salts and esters	87-86-5**, 131-52-2, 27735-64-4, 3772-94-9	Pesticide* & Industrial	Japan	Asia	XLIV

Chemical name	CAS No.	Category	Country	Region	PIC Circular
Perfluorocarboxylic acids that have the molecular formula $C_nF_{2n+1}CO_2H$ in which $8 \leq n \leq 20$ , their salts, and their precursors (LC-PFCAs)	375-95-1, 335-76-2, 2058-94-8, 307-55-1, 72629-94-8, 376-06-7, 141074-63-7, 67905-19-5, 57475-95-3, 16517-11-6, 133921-38-7, 68310-12-3 (list is not exhaustive)	Industrial	Canada	North America	XLVII
Perfluorooctane sulphonate (PFOS), its salts and perfluorooctanesulfonyl fluoride (PFOSF)	2795-39-3**, 70225-14-8**, 29081-56-9**, 29457-72-5**, 307-35-7**	Pesticide & Industrial*	China	Asia	XLV
Perfluorooctanoic acid (PFOA), its salts and PFOA related compounds	335-67-1, 45285-51-6 3825-26-1, 90480-56-1 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 376-27-2, 3108-24-5 (list is not exhaustive)	Industrial	Canada	North America	XLVII
Perfluorooctanoic acid (PFOA), its salts and PFOA related compounds	335-67-1, 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 376-27-2, 3108-24-5	Industrial	Norway	Europe	XLI
Permethrin	52645-53-1	Pesticide	Syrian Arab Republic	Near East	XXXII
Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)-	3846-71-7	Industrial	Japan	Asia	XXVII
Phenthoate	2597-03-7	Pesticide	Malaysia	Asia	XLIV
Phorate	298-02-2	Pesticide	Thailand	Asia	XIV
Phorate	298-02-2	Pesticide	Brazil	Latin America and the Caribbean	XLV
Phorate	298-02-2	Pesticide	Canada	North America	XXVIII
Phosalone	2310-17-0	Pesticide	European Union	Europe	XXVII
Phosphamidon	13171-21-6	Pesticide	Côte d'Ivoire	Africa	XX
Phosphamidon	13171-21-6	Pesticide & Industrial	Japan	Asia	XX
Phosphamidon	13171-21-6	Pesticide	Thailand	Asia	XIV

Chemical name	CAS No.	Category	Country	Region	PIC Circular
Phosphamidon	13171-21-6	Pesticide	Brazil	Latin America and the Caribbean	XX
Phosphamidon	13171-21-6	Pesticide	Panama	Latin America and the Caribbean	XIX
Polychlorinated naphthalenes	70776-03-3	Industrial	Japan	Asia	XXI
Polychlorinated naphthalenes	28699-88-9, 1321-65-9, 1335-88-2, 1321-64-8, 1335-87-1, 32241-08-0, 2234-13-1	Industrial	Japan	Asia	XLIV
Polychlorinated naphthalenes	70776-03-3	Industrial	Canada	North America	XXXVIII
Polychloroterpenes	8001-50-1	Pesticide	Thailand	Asia	XX
Procymidone	32809-16-8	Pesticide	European Union	Europe	XXXVII
Profenofos	41198-08-7	Pesticide	Malaysia	Asia	XLIV
Propachlor	1918-16-7	Pesticide	European Union	Europe	XXXIII
Propachlor	1918-16-7	Pesticide	Norway	Europe	XXVI
Propanil	709-98-8	Pesticide	European Union	Europe	XXXIX
Propargite	2312-35-8	Pesticide	European Union	Europe	XXXIX
Propisochlor	86763-47-5	Pesticide	European Union	Europe	XXXVI
Propylbromoacetate	35223-80-4	Industrial	Latvia	Europe	XX
Prothiofos	34643-46-4	Pesticide	Malaysia	Asia	XLIV
Prothoate	2275-18-5	Pesticide	Thailand	Asia	XIV
Pymetrozine	123312-89-0	Pesticide	Norway	Europe	XXXIX
Pyrazophos	13457-18-6	Pesticide	European Union	Europe	XIII
Pyrinuron	53558-25-1	Pesticide	Thailand	Asia	XX
Quinalphos	13593-03-8	Pesticide	Malaysia	Asia	XLIV
Quintozene	82-68-8	Pesticide	European Union	Europe	XV
Quintozene	82-68-8	Pesticide	Romania	Europe	XX
Quintozene	82-68-8	Pesticide	Switzerland	Europe	XX
Schradan	152-16-9	Pesticide & Industrial	Japan	Asia	XX
Schradan	152-16-9	Pesticide	Thailand	Asia	XIV
Simazine	122-34-9	Pesticide	European Union	Europe	XXI
Simazine	122-34-9	Pesticide	Norway	Europe	XIII
Sodium arsenite	7784-46-5	Pesticide	Netherlands	Europe	XIV
Sodium fluoroacetate	62-74-8	Pesticide	Cuba	Latin America and the Caribbean	XXXVIII
Sodium trichloroacetate	650-51-1	Pesticide	Netherlands	Europe	XIV
Sulfosulfurone	141776-32-1	Pesticide	Norway	Europe	XV
Sulfotep	3689-24-5	Pesticide	Thailand	Asia	XIV
Tar acids, coal, crude	65996-85-2	Industrial	Latvia	Europe	XX
Tecnazene	117-18-0	Pesticide	European Union	Europe	XV
Terbufos	13071-79-9	Pesticide	Canada	North America	XXXVIII
Tetraethyl pyrophosphate (TEPP)	107-49-3	Pesticide & Industrial	Japan	Asia	XX

Chemical name	CAS No.	Category	Country	Region	PIC Circular
Tetrachlorobenzene	12408-10-5, 84713-12-2, 634-66-2, 634-90-2, 95-94-3	Industrial	Canada	North America	XXVIII
Thallium acetate	563-68-8	Industrial	Republic of Korea	Asia	XX
Thallium nitrate	10102-45-1	Industrial	Republic of Korea	Asia	XX
Thallium sulphate	7446-18-6	Industrial	Republic of Korea	Asia	XX
Thallium sulphate	7446-18-6	Pesticide	Thailand	Asia	XX
Thiabendazole	148-79-8	Pesticide	Norway	Europe	XIII
Thiodicarb	59669-26-0	Pesticide	European Union	Europe	XXVII
Triazophos	24017-47-8	Pesticide	Cabo Verde	Africa	XLI
Triazophos	24017-47-8	Pesticide	Chad	Africa	XLI
Triazophos	24017-47-8	Pesticide	Gambia	Africa	XLI
Triazophos	24017-47-8	Pesticide	Malaysia	Asia	XLIV
Triazophos	24017-47-8	Pesticide	Mauritania	Africa	XLI
Triazophos	24017-47-8	Pesticide	Niger	Africa	XLI
Triazophos	24017-47-8	Pesticide	Senegal	Africa	XLI
Triazophos	24017-47-8	Pesticide	Togo	Africa	XLI
Tribufos	78-48-8	Pesticide	Australia	Southwest Pacific	XIII
Tributyl tetradecyl phosphonium chloride	81741-28-8	Industrial	Canada	North America	XIII
Trifluralin	1582-09-8	Pesticide	European Union	Europe	XXXVI
Tris-(1-aziridinyl)phosphine oxide	545-55-1	Industrial	Latvia	Europe	XX
Tris-(1-aziridinyl)phosphine oxide	545-55-1	Industrial	Switzerland	Europe	XXIII
Vinclozolin	50471-44-8	Pesticide	Norway	Europe	XIII
Vinclozolin	50471-44-8	Pesticide	Jordan	Near East	XVIII
Zineb	12122-67-7	Pesticide	Ecuador	Latin America and the Caribbean	XX

\* The chemical is listed in Annex III under this category.

\*\* The chemical is listed in Annex III under this CAS number.

**Note:** On 1 May 2019, Canada notified the withdrawal of its notification of final regulatory action on Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST), CAS No. 68921-45-9, which was originally published in PIC Circular XLII on 12 December 2015. The notification was therefore removed from Part A of Appendix V of the PIC Circular and is no longer published on the Rotterdam Convention website

**Notifications of final regulatory action for chemicals not listed in Annex III**

**PART B**

**NOTIFICATIONS OF FINAL REGULATORY ACTION FOR CHEMICALS NOT LISTED  
IN ANNEX III AND VERIFIED AS NOT CONTAINING ALL THE INFORMATION  
REQUIRED BY ANNEX I TO THE CONVENTION**

Chemical name	CAS No.	Category	Country	Region	PIC Circular
Acrylonitrile	107-13-1	Pesticide	Saudi Arabia	Near East	XXVII
1,2-dichloropropane	78-87-5	Pesticide	Saudi Arabia	Near East	XXXII
1,4-dichlorobenzene	106-46-7	Pesticide	Israel	Europe	XXXV
1-Bromo-2-chloroethane	107-04-0	Pesticide	Saudi Arabia	Near East	XXXII
2-(2,4,5-trichlorephenoxy)ethyl 2,2dichloropropanoate	136-25-4	Pesticide	Saudi Arabia	Near East	XXVII
2,4,5-TP (Silvex; Fenoprop)	93-72-1	Pesticide	Saudi Arabia	Near East	XXXII
2,4,5-Trichlorophenol	95-95-4	Pesticide	Ecuador	Latin America and the Caribbean	XLVII
Acephate	30560-19-1	Pesticide	Oman	Near East	XXXIX
Acrolein	107-02-8	Pesticide	Saudi Arabia	Near East	XXXII
Amitraz	33089-61-1	Pesticide	Oman	Near East	XXXIX
Amitrole	61-82-5	Pesticide	Ecuador	Latin America and the Caribbean	XLVII
Amitrole	61-82-5	Pesticide	Oman	Near East	XXXIX
Amitrole	61-82-5	Pesticide	Saudi Arabia	Near East	XXVII
Atrazine	1912-24-9	Pesticide	Uruguay	Latin America and the Caribbean	XLVIII
Atrazine	1912-24-9	Pesticide	Oman	Near East	XXXIX
Azinphos-ethyl	2642-71-9	Pesticide	Saudi Arabia	Near East	XXVII
Bendiocarb	22781-23-3	Pesticide	Saudi Arabia	Near East	XXVII
Benomyl	17804-35-2	Pesticide	Ecuador	Latin America and the Caribbean	XLVII
Benomyl	17804-35-2	Pesticide	Oman	Near East	XXXIX
Benomyl	17804-35-2	Pesticide	Saudi Arabia	Near East	XXXVIII
Bifenthrin	82657-04-3	Pesticide	Oman	Near East	XXXIX
Bromacil	314-40-9	Pesticide	Costa Rica	Latin America and the Caribbean	XLVII
Bromadiolone	28772-56-7	Pesticide	Oman	Near East	XXXIX
Bromadiolone	28772-56-7	Pesticide	Saudi Arabia	Near East	XXXVIII
Bromofos-ethyl	4824-78-6	Pesticide	Oman	Near East	XXXIX
Bromofos-ethyl	4824-78-6	Pesticide	Saudi Arabia	Near East	XXVII
Cadmium	7440-43-9	Pesticide	Thailand	Asia	XX
Cadusafos	95465-99-9	Pesticide	Oman	Near East	XXXIX
Calcium cyanide	592-01-8	Pesticide	Saudi Arabia	Near East	XXVII
Captan	133-06-2	Pesticide	Oman	Near East	
Captan	133-06-2	Pesticide	Saudi Arabia	Near East	XXVII
Carbaryl	63-25-2	Pesticide	El Salvador	Latin America and the Caribbean	XXVII
Carbaryl	63-25-2	Pesticide	Saudi Arabia	Near East	XXXVIII
Carbon tetrachloride	56-23-5	Pesticide	Ecuador	Latin America and the Caribbean	XLVII

Chemical name	CAS No.	Category	Country	Region	PIC Circular
Chloranil	118-75-2	Pesticide	Mexico	Latin America and the Caribbean	XXVIII
Chloranil	118-75-2	Pesticide	Saudi Arabia	Near East	XXXII
Chlordecone	143-50-0	Pesticide	Mexico	Latin America and the Caribbean	XXVIII
Chlordecone	143-50-0	Pesticide	Saudi Arabia	Near East	XXXII
Chlormephos	24934-91-6	Pesticide	Oman	Near East	XXXIX
Chlormephos	24934-91-6	Pesticide	Saudi Arabia	Near East	XXVII
Chloropicrin	76-06-2	Pesticide	Oman	Near East	XXXIX
Chloropicrin	76-06-2	Pesticide	Saudi Arabia	Near East	XXVII
Chlorothalonil	1897-45-6	Pesticide	Saudi Arabia	Near East	XXXVIII
Chlorpyrifos	2921-88-2	Pesticide	Saudi Arabia	Near East	XXXVIII
Chlorthiophos	60238-56-4	Pesticide	Saudi Arabia	Near East	XXVII
Chrysotile asbestos	12001-29-5	Industrial	El Salvador	Latin America and the Caribbean	XXVII
Copper arsenate hydroxide	16102-92-4	Pesticide	Thailand	Asia	XX
Cyanazine	21725-46-2	Pesticide	Oman	Near East	XXXIX
Cyanophos	2636-26-2	Pesticide	Mexico	Latin America and the Caribbean	XXVIII
Cycloheximide	66-81-9	Pesticide	Saudi Arabia	Near East	XXVII
Cyhexatin	13121-70-5	Pesticide	Saudi Arabia	Near East	XXXII
Daminozide	1596-84-5	Pesticide	Saudi Arabia	Near East	XXXII
DDD	72-54-8	Pesticide	Saudi Arabia	Near East	XXVII
Demeton-S-methyl	919-86-8	Pesticide	Oman	Near East	XXXIX
Demeton-S-methyl	919-86-8	Pesticide	Saudi Arabia	Near East	XXXVIII
Dialifos	10311-84-9	Pesticide	Mexico	Latin America and the Caribbean	XXVIII
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	Pesticide	Ecuador	Latin America and the Caribbean	XLVII
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	Pesticide	Mexico	Latin America and the Caribbean	XXVIII
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	Pesticide	Saudi Arabia	Near East	XXVII
Dichlorvos	62-73-7	Pesticide	Saudi Arabia	Near East	XXVII
Diclofop-methyl	51338-27-3	Pesticide	Saudi Arabia	Near East	XXXII
Dicofol	115-32-2	Pesticide	Oman	Near East	XXXIX
Dicofol	115-32-2	Pesticide	Saudi Arabia	Near East	XXXVIII
Dicrotophos	141-66-2	Pesticide	Oman	Near East	XXXIX
Dicrotophos	141-66-2	Pesticide	Saudi Arabia	Near East	XXVII
Diflubenzuron	35367-38-5	Pesticide	Oman	Near East	XXXIX
Dimefox	115-26-4	Pesticide	Oman	Near East	XXXIX
Dimefox	115-26-4	Pesticide	Saudi Arabia	Near East	XXVII
Dimethoate	60-51-5	Pesticide	Saudi Arabia	Near East	XXXVIII
Dimethylarsinic acid	75-60-5	Pesticide	Israel	Europe	XXXV
Dinitramine	29091-05-2	Pesticide	Mexico	Latin America and the Caribbean	XXVIII
Dinitramine	29091-05-2	Pesticide	Saudi Arabia	Near East	XXVII
Disulfoton	298-04-4	Pesticide	Oman	Near East	XXXIX
Disulfoton	298-04-4	Pesticide	Saudi Arabia	Near East	XXVII



Chemical name	CAS No.	Category	Country	Region	PIC Circular
Endrin	72-20-8	Pesticide	Nepal	Asia	XLII
Endrin	72-20-8	Pesticide	Ecuador	Latin America and the Caribbean	XLVII
Endrin	72-20-8	Pesticide	Mexico	Latin America and the Caribbean	XXVIII
Endrin	72-20-8	Pesticide	Saudi Arabia	Near East	XXVII
EPN	2104-64-5	Pesticide	Saudi Arabia	Near East	XXVII
Erbon	136-25-4	Pesticide	Mexico	Latin America and the Caribbean	XXVIII
Erbon	136-25-4	Pesticide	Saudi Arabia	Near East	XXXII
Ethephon	16672-87-0	Pesticide	Saudi Arabia	Near East	XXVII
Ethoprophos	13194-48-4	Pesticide	Oman	Near East	XXXIX
Ethoprophos	13194-48-4	Pesticide	Saudi Arabia	Near East	XXXVIII
Ethylan	72-56-0	Pesticide	Saudi Arabia	Near East	XXVII
Ethylmercury chloride	107-27-7	Pesticide	Armenia	Europe	XII
Fenamiphos	22224-92-6	Pesticide	Oman	Near East	XXXIX
Fenamiphos	22224-92-6	Pesticide	Saudi Arabia	Near East	XXVII
Fenthion	55-38-9	Pesticide	Oman	Near East	XXXIX
Fentin acetate	115-90-2	Pesticide	Saudi Arabia	Near East	XXVII
Fipronil	120068-37-3	Pesticide	Oman	Near East	XXXIX
Flucythrinate	70124-77-5	Pesticide	Oman	Near East	XXXIX
Fluorine	7782-41-4	Pesticide	Saudi Arabia	Near East	XXVII
Folpet	133-07-3	Pesticide	Saudi Arabia	Near East	XXVII
Fonofos	944-22-9	Pesticide	Oman	Near East	XXXIX
Fonofos	944-22-9	Pesticide	Saudi Arabia	Near East	XXVII
Formothion	2540-82-1	Pesticide	Mexico	Latin America and the Caribbean	XXVIII
Fosthietan	21548-32-3	Pesticide	Oman	Near East	XXXIX
Fosthietan	21548-32-3	Pesticide	Saudi Arabia	Near East	XXVII
Granosan M	2235-25-8	Pesticide	Armenia	Europe	XII
Hexaethyl tetra phosphate	757-58-4	Pesticide	Saudi Arabia	Near East	XXVII
Hydrogen cyanide	74-90-8	Pesticide	Saudi Arabia	Near East	XXVII
Lead arsenate	7784-40-9	Pesticide	Togo	Africa	XLII
Lead arsenate	7784-40-9	Pesticide	Thailand	Asia	XX
Leptophos	21609-90-5	Pesticide	Ecuador	Latin America and the Caribbean	XLVII
Leptophos	21609-90-5	Pesticide	Saudi Arabia	Near East	XXVII
Linuron	330-55-2	Pesticide	Oman	Near East	XXXIX
Mancozeb	8018-01-7	Pesticide	Saudi Arabia	Near East	XXXVIII
Mephosfolan	950-10-7	Pesticide	Oman	Near East	XXXIX
Mephosfolan	950-10-7	Pesticide	Saudi Arabia	Near East	XXVII
Metham sodium	137-42-8	Pesticide	Saudi Arabia	Near East	XXVII
Methidathion	950-37-8	Pesticide	Uruguay	Latin America and the Caribbean	XLVIII
Methidathion	950-37-8	Pesticide	Oman	Near East	XXXIX
Methiocarb	2032-65-7	Pesticide	Saudi Arabia	Near East	XXXVIII
Methomyl	16752-77-5	Pesticide	Uruguay	Latin America and the Caribbean	XLVIII
Methomyl	16752-77-5	Pesticide	Saudi Arabia	Near East	XXXVIII

Chemical name	CAS No.	Category	Country	Region	PIC Circular
Methoxychlor	72-43-5	Pesticide	Oman	Near East	XXXIX
Methoxychlor	72-43-5	Pesticide	Saudi Arabia	Near East	XXXVIII
Methyl parathion	298-00-0	Pesticide	Cameroon	Africa	XVIII
Methyl parathion	298-00-0	Pesticide	Peru	Latin America and the Caribbean	XLVIII
Methyl parathion	298-00-0	Pesticide	Uruguay	Latin America and the Caribbean	XLVIII
Mevinphos	7786-34-7	Pesticide	Oman	Near East	XXXIX
Mevinphos	7786-34-7	Pesticide	Saudi Arabia	Near East	XXVII
Mirex	2385-85-5	Pesticide	Nepal	Asia	XLII
Mirex	2385-85-5	Pesticide	El Salvador	Latin America and the Caribbean	XXVII
Mirex	2385-85-5	Pesticide	Ecuador	Latin America and the Caribbean	XLVII
Mirex	2385-85-5	Pesticide	Mexico	Latin America and the Caribbean	XXVIII
Mirex	2385-85-5	Pesticide	Peru	Latin America and the Caribbean	XXXVI
Mirex	2385-85-5	Pesticide	Saudi Arabia	Near East	XXVII
Monuron	150-68-5	Pesticide	Mexico	Latin America and the Caribbean	XXVIII
Nicotine	54-11-5	Pesticide	Oman	Near East	XXXIX
Nitrofen	1836-75-5	Pesticide	Mexico	Latin America and the Caribbean	XXVIII
Oxydemeton-methyl	301-12-2	Pesticide	Oman	Near East	XXXIX
Oxydemeton-methyl	301-12-2	Pesticide	Saudi Arabia	Near East	XXXVIII
Paraquat	4685-14-7	Pesticide	Saudi Arabia	Near East	XXVII
Paraquat dichloride	1910-42-5	Pesticide	Oman	Near East	XXXIX
Phenylmercury acetate	62-38-4	Pesticide	Mexico	Latin America and the Caribbean	XXVIII
Phorate	298-02-2	Pesticide	Saudi Arabia	Near East	XXVII
Phosfolan	947-02-4	Pesticide	Saudi Arabia	Near East	XXVII
Phosphamidon	13171-21-6	Pesticide	Ecuador	Latin America and the Caribbean	XLVII
Phosphamidon	13171-21-6	Pesticide	Peru	Latin America and the Caribbean	XLVIII
Phosphonic diamide, <i>p</i> -(5-amino-3-phenyl-1 <i>H</i> -1,2,4-triazol-1-yl)- <i>N,N,N',N'</i> -tetramethyl-	1031-47-6	Pesticide	Mexico	Latin America and the Caribbean	XXVIII
Polychloroterpenes	8001-50-1	Pesticide	Saudi Arabia	Near East	XXVII
Propargite	2312-35-8	Pesticide	Saudi Arabia	Near East	XXXVIII
Propoxur	114-26-1	Pesticide	Saudi Arabia	Near East	XXXVIII
Prothoate	2275-18-5	Pesticide	Saudi Arabia	Near East	XXVII
Quintozene	82-68-8	Pesticide	Japan	Asia	XX
Quintozene	82-68-8	Pesticide	Saudi Arabia	Near East	XXXVIII
Quintozene	82-68-8	Pesticide	Oman	Near East	XXXIX
Safrole	94-59-7	Pesticide	Thailand	Asia	XX
Schradan	152-16-9	Pesticide	Mexico	Latin America and the Caribbean	XXVIII
Schradan	152-16-9	Pesticide	Saudi Arabia	Near East	XXVII

Chemical name	CAS No.	Category	Country	Region	PIC Circular
Simazine	122-34-9	Pesticide	Oman	Near East	XXXIX
Simazine	122-34-9	Pesticide	Saudi Arabia	Near East	XXXVIII
Sodium cyanide	143-33-9	Pesticide	Saudi Arabia	Near East	XXVII
Sodium dimethylarsinate	124-65-2	Pesticide	Israel	Europe	XXXV
Sodium fluoroacetate	62-74-8	Pesticide	Mexico	Latin America and the Caribbean	XXVIII
Sodium fluoroacetate	62-74-8	Pesticide	Saudi Arabia	Near East	XXVII
Tefluthrin	79538-32-2	Pesticide	Oman	Near East	XXXIX
TEPP	107-49-3	Pesticide	Saudi Arabia	Near East	XXVII
Terbufos	13071-79-9	Pesticide	Saudi Arabia	Near East	XXVII
Tetradifon	116-29-0	Pesticide	Saudi Arabia	Near East	XXXVIII
Thallium sulphate	7446-18-6	Pesticide	Saudi Arabia	Near East	XXVII
Thionazin	297-97-2	Pesticide	Saudi Arabia	Near East	XXVII
Thiram	137-26-8	Pesticide	Ecuador	Latin America and the Caribbean	XLVII
Zineb	12122-67-7	Pesticide	Oman	Near East	XXXIX
Zineb	12122-67-7	Pesticide	Saudi Arabia	Near East	XXXVIII

## APPENDIX VI

### INFORMATION EXCHANGE ON CHEMICALS RECOMMENDED BY THE CHEMICAL REVIEW COMMITTEE FOR LISTING IN ANNEX III BUT FOR WHICH THE CONFERENCE OF THE PARTIES HAS YET TO TAKE A FINAL DECISION

In line with decisions<sup>20</sup> RC-3/3, RC-4/4, RC-6/8, RC-8/6, RC-8/7, RC-9/5 and paragraph 1 of Article 14, appendix VI has been prepared to facilitate information exchange on chemicals that have been recommended for listing in Annex III to the Convention by the Chemical Review Committee but for which the Conference of the Parties has yet to take a final decision.

This appendix consists of two parts:

**Part A** provides a reference to the information that has been submitted by Parties on their decisions concerning the management of these chemicals.

**Part B** is a list of decisions on the import of these chemicals submitted by Parties. These import decisions are circulated for information only and do not constitute part of the legally binding PIC procedure.

Further information on these chemicals is available on the Convention website,<sup>21</sup> including the notifications of final regulatory action and supporting documentation made available to the Chemical Review Committee and the draft decision guidance documents.

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<sup>20</sup> <http://www.pic.int/tabid/1728/language/en-US/Default.aspx>.

<sup>21</sup> <http://www.pic.int/tabid/1185/language/en-US/Default.aspx>.

**PART A**

**DECISIONS CONCERNING THE MANAGEMENT OF THE CHEMICALS  
RECOMMENDED BY THE CHEMICAL REVIEW COMMITTEE FOR LISTING IN  
ANNEX III BUT FOR WHICH THE CONFERENCE OF THE PARTIES HAS YET TO  
TAKE A FINAL DECISION**

<b>Chrysotile asbestos (CAS No: 12001-29-5)</b>		
<b>PARTY</b>	<b>PIC CIRCULAR</b>	<b>LINK</b>
European Union	PIC Circular XXVII (27), June 2008	<a href="http://www.pic.int/tabid/1186/language/en-US/Default.aspx">http://www.pic.int/tabid/1186/language/en-US/Default.aspx</a>
Switzerland	PIC Circular XXVI (26), December 2007	<a href="http://www.pic.int/tabid/1186/language/en-US/Default.aspx">http://www.pic.int/tabid/1186/language/en-US/Default.aspx</a>

<b>Liquid formulations (emulsifiable concentrate and soluble concentrate) containing paraquat dichloride at or above 276 g/L, corresponding to paraquat ion at or above 200 g/L (CAS No: 1910-42-5)</b>		
<b>PARTY</b>	<b>PIC CIRCULAR</b>	<b>LINK</b>
Burkina Faso	PIC Circular XXXII (32), December 2010	<a href="http://www.pic.int/tabid/2396/language/en-US/Default.aspx">http://www.pic.int/tabid/2396/language/en-US/Default.aspx</a>

<b>Carbosulfan (CAS No: 55285-14-8)</b>		
<b>PARTY</b>	<b>PIC CIRCULAR</b>	<b>LINK</b>
European Union	PIC Circular XXXV (35), June 2012	<a href="http://www.pic.int/tabid/5393/language/en-US/Default.aspx">http://www.pic.int/tabid/5393/language/en-US/Default.aspx</a>
Burkina Faso, Cabo Verde, Chad, Gambia, Mauritania, the Niger, Senegal and Togo	PIC Circular XLI (41), June 2015	<a href="http://www.pic.int/tabid/5393/language/en-US/Default.aspx">http://www.pic.int/tabid/5393/language/en-US/Default.aspx</a>

<b>Fenthion (ultra-low volume (ULV) formulations at or above 640 g active ingredient/L) (CAS No: 55-38-9 )</b>		
<b>PARTY</b>	<b>PIC CIRCULAR</b>	<b>LINK</b>
Chad	PIC Circular XXXVI (36), December 2012	<a href="http://www.pic.int/tabid/4339/language/en-US/Default.aspx">http://www.pic.int/tabid/4339/language/en-US/Default.aspx</a>

**PART B****IMPORT DECISIONS ON THE CHEMICALS RECOMMENDED BY THE CHEMICAL REVIEW COMMITTEE FOR LISTING IN ANNEX III BUT FOR WHICH THE CONFERENCE OF THE PARTIES HAS YET TO TAKE A FINAL DECISION**

<b>Chrysotile asbestos (CAS No: 12001-29-5)</b>		
<b>PARTY</b>	<b>IMPORT DECISION</b>	<b>DATE RECEIVED</b>
Canada	<p><u>Consent to import only subject to specified conditions:</u></p> <p>The <i>Prohibition of Asbestos and Products Containing Asbestos Regulations</i> do not prohibit the:</p> <ul style="list-style-type: none"> <li>• Import and use of asbestos in the chlor-alkali industry (until December 31, 2029);</li> <li>• Import, sale and use of products containing asbestos to service equipment in nuclear facilities if no technically or economically feasible asbestos-free alternative is available (until December 31, 2022);</li> <li>• Import, sale and use of products containing asbestos to service military equipment if no technically or economically feasible asbestos-free alternative is available (until December 31, 2022);</li> <li>• Import, sale and use, under the authority of a permit, of products containing asbestos to service military equipment or equipment of a nuclear facility if there was no technically or economically feasible asbestos-free alternative available at the time the permit application was submitted (after December 31, 2022);</li> <li>• Import, sale and use of military equipment serviced with a product containing asbestos while it was outside of Canada for the purpose of a military operation if no technically or economically feasible asbestos-free alternative is available;</li> <li>• Import, sale and use of asbestos and products containing asbestos for the purpose of display in a museum;</li> <li>• Import, sale and use of asbestos and products containing asbestos for scientific research, for sample characterization or as an analytical standard in a laboratory;</li> <li>• Transfer of physical possession or control of asbestos or a product containing asbestos to allow its disposal; and</li> <li>• Import, use and sale, under the authority of a permit, of asbestos and products containing asbestos to protect the environment or human health if there was no technically or economically feasible asbestos-free alternative available at the time the permit application was submitted.</li> </ul> <p><u>Administrative measure:</u></p> <p><i>Prohibition of Asbestos and Products Containing Asbestos Regulations</i>. P.C. 2018-1210, 28 September, 2018, SOR/2018-196, Canada Gazette, Part 11, vol. 152, no. 21, p.3405, October 17, 2018.</p> <p><a href="http://gazette.gc.ca/rp-pr/p2/2018/2018-10-17/html/sor-dors196-eng.html">http://gazette.gc.ca/rp-pr/p2/2018/2018-10-17/html/sor-dors196-eng.html</a></p> <p>The above named regulations prohibit the import, sale and use of asbestos, as well as the manufacture, import, sale and use of products containing asbestos, with a limited number of exclusions, see "Other remarks" section.</p> <p><u>Other remarks:</u></p> <p>In addition to the exclusions mentioned above, the <i>Prohibition of Asbestos and Products Containing Asbestos Regulations</i> (the Regulations) do not apply to:</p>	25 April 2019

	<ul style="list-style-type: none"> <li>Asbestos or a product containing asbestos that is in transit through Canada, from a place outside Canada to another place outside Canada.</li> <li>Asbestos that is integrated into a structure or infrastructure if the integration occurred before the day on which these Regulations came into force (December 30, 2018).</li> <li>A product containing asbestos used before the day on which these Regulations came into force (December 30, 2018).</li> <li>Pest control products (as defined in subsection 2(1) of the <i>Pest Control Products Act</i>), as pest control products are regulated under this Act.</li> </ul> <p>The Regulations do not apply to mining residues except for the following activities, which are prohibited:</p> <ul style="list-style-type: none"> <li>The sale of asbestos mining residues for use in construction and landscaping, unless the use is authorized by the province in which the construction or landscaping occurs; and</li> </ul> <p>The use of asbestos mining residues to manufacture a product that contains asbestos.</p>	
European Union	<p><u>Consent to import only subject to specified conditions:</u></p> <p>The manufacture, placing on the market and use of chrysotile asbestos fibres and of articles containing these fibres added intentionally is prohibited. However, Member States may exempt the placing on the market and use of diaphragms containing chrysotile for existing electrolysis installations until they reach the end of their service life, or until suitable asbestos-free substitutes become available, whichever is the sooner. By 1 June 2011 Member States making use of this exemption shall provide a report to the Commission. The Commission shall ask the European Chemicals agency to prepare a dossier with a view to prohibit the placing on the market and use of diaphragms containing chrysotile.</p> <p><u>Administrative measure:</u></p> <p>The chemical was prohibited (with the one limited derogation referred to section 5.3 above) by Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the registration, evaluation, authorisation and restriction of chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Communities (OJ) L396 of 30 December 2006, p. 1) as amended by Commission Regulation (EC) No 552/2009 of 22 June 2009 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as regards Annex XVII (OJ L 164 of 22 June 2009, p. 7).</p>	6 October 2009

<b>Liquid formulations (emulsifiable concentrate and soluble concentrate) containing paraquat dichloride at or above 276 g/L, corresponding to paraquat ion at or above 200 g/L (CAS No: 1910-42-5)</b>		
<b>PARTY</b>	<b>IMPORT DECISION</b>	<b>DATE RECEIVED</b>
Qatar	<p><u>No consent to import</u></p> <p><u>Administrative measure:</u></p> <p>(*) Ministry of Environment to perform all the tasks and actions to protect the environment in the country, According to the law No. 30 of 2002 Article (26). Prohibiting the import or handling or transport of hazardous materials, without authorization from the competent administrative authority, and article (29) or law No. 30 of 2002 Provides (spray or prohibited the use of pesticides or other chemical compounds for agriculture, public health or other purposes but after taking into account the requirements and checks and balances defined by the regulations, to ensure that human, animal or plant or watercourses or other components of the environment directly or indirectly on the spot or future adverse impacts of pesticides or chemical compounds (*)Law No. 24 of 2010 Promulgating the Law (Regulation) of Pesticides in the States of the Cooperation Council for the Arab State of the Gulf.</p>	2 November 2015