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PIC CIRCULAR XLIV (44) – December 2016



ROTTERDAM CONVENTION

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

PIC CIRCULAR XLIV (44) – December 2016

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INTRODUCTION

1. THE PURPOSE OF THE PIC CIRCULAR

The Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals 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 (DNAs), with the information required to be circulated by the Secretariat in line with Articles 4, 5, 6, 7, 10, 11, 13 and 14. The decision guidance documents to be dispatched to Parties in line with Article 7, paragraph 3, 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 in the period from 1 May 2016 to 31 October 2016. In order to allow time for processing the information received in preparation of the PIC Circular, information received after 31 October 2016 has generally not been included, and will be included in the next PIC Circular.

Considerable efforts have been made by the Secretariat to ensure that the information included in the PIC Circular is both complete and accurate. DNAs 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 (Article 4 of the Convention)

In line with Article 4, paragraph 4 of the Convention, the Secretariat shall inform Parties of the notifications of designations or changes to Designated National Authorities (DNAs). A complete Register of DNAs containing all contact details is distributed together with the present PIC Circular. This information is also available on the Rotterdam Convention website (www.pic.int).

2.2 Notifications of final regulatory action to ban or severely restrict a chemical (Article 5 of the Convention)

In line with Article 5, paragraph 3 of the Convention, the Secretariat circulates summaries of notifications of final regulatory action that have been verified to contain the information required by Annex I to the Convention. In addition, the Secretariat circulates a synopsis of all of the notifications of final regulatory action received, including information regarding those notifications that do not contain all the information required by Annex I to the Convention.

A synopsis of all notifications of final regulatory action to ban or severely restrict chemicals received from Parties since the last PIC Circular has been prepared. **Part A** of **Appendix I** of the PIC Circular contains a summary of the individual notifications verified to contain the information required by Annex I to the Convention. **Part B** contains a list of notifications received, over the same period, that have been verified not to contain the information required by Annex I to the Convention. Finally, **Part C** lists notifications received which are still under verification by the Secretariat.

Part A of **Appendix V** contains a tabular summary of all the notifications of final regulatory action for banned or severely restricted chemicals that are not listed in Annex III that were received from Parties from September 1998 to the present, and verified as containing the information required by Annex I to the Convention. Once an additional notification verified as containing the information required by Annex I has been submitted from a second PIC region for one of these chemicals, it will then be forwarded to the Chemical Review Committee for consideration as a candidate chemical for inclusion in Annex III to the Convention.

Parties that have adopted final regulatory actions are to notify the Secretariat within the timeframes established in Article 5, paragraphs 1 and 2. The Secretariat would like to draw the attention of Parties to the chemicals for which at least one complete notification already exists and encourage Parties to accord priority to those chemicals in preparing notifications of final regulatory action.

Part B of Appendix V contains a list of all notifications received, over the same period, that have been verified as not containing the information required by Annex I to the Convention.

Information on notifications submitted by Parties for the chemicals listed in Annex III to the Convention verified as containing the information required by Annex I to the Convention have been included on the Convention website (www.pic.int) in the section titled “Database of notifications.”

Finally, a synopsis of all notifications received before the adoption of the Convention (under the original PIC procedure) was published in **PIC Circular X** in December 1999 and is available from the Rotterdam Convention website (www.pic.int). The notifications submitted before the adoption of the Convention do not meet the requirements of Annex I because the information requirements for notification under the original PIC procedure were different than those of the Convention. It is to be noted that although Parties are not obliged to resubmit notifications submitted under the original PIC procedure (paragraph 2 of Article 5 of the Convention), they may wish to consider doing so for those chemicals not presently listed in Annex III, in the event that sufficient supporting information is available.

In order 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 have been developed. Copies of the form and the instructions can be obtained from the Rotterdam Convention website (www.pic.int) or the Secretariat (pic@fao.org or pic@pic.int and pic@brsmeas.org) upon request. Notifications of final regulatory action must be submitted through the official channel of communication for the Party e.g. DNA.

2.3 Proposals for inclusion of severely hazardous pesticide formulations (Article 6 of the Convention)

In line with Article 6, paragraph 2 of the Convention, the Secretariat circulates summaries of those proposals for inclusion of severely hazardous pesticide formulations in the PIC procedure, which the Secretariat has verified to contain the information required by Part 1 of Annex IV to the Convention.

Summaries of proposals received from Parties are provided in **Part A of Appendix II** of the PIC Circular. Parties that have submitted proposals which are still under verification by the Secretariat are listed in **Part B** of this Appendix.

In order 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* have been developed. Copies of these forms and instructions for how to complete them may be obtained from the Rotterdam Convention website (www.pic.int) or the Secretariat (pic@fao.org or pic@pic.int and pic@brsmeas.org) upon request.

Proposals must be submitted through the official channel of communication for the Party e.g. DNA.

2.4 Chemicals subject to the PIC procedure and distribution of decision guidance documents (Article 7 of the Convention)

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

Further, the Conference of the Parties, in its decision RC-7/5, decided to establish an inter-sessional working group to review the cases in which the Conference of the Parties was unable to reach consensus on the listing of a chemical to develop options for improving the effectiveness of the process and to develop proposals for enabling improved information flows that support the prior informed consent procedure for those chemicals. The group will report on its work to the Conference of the Parties at its eighth meeting from 24 April–5 May 2017 in Geneva, Switzerland.

2.5 Export notifications (Article 12 of the Convention)

Article 12 and Annex V of the Convention set out the provisions and information requirements related to export notifications. Where 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 export notification.

The Conference of the Parties at its third meeting requested the Secretariat to develop a standard form for export notification in order to assist Parties in meeting their obligations under the Convention. Copies of the form may be obtained from the Rotterdam Convention website (www.pic.int) or the Secretariat upon request (pic@fao.org or pic@pic.int and pic@brsmeas.org).

Parties are encouraged to use this form when making or acknowledging receipt of export notifications. Where there are forms that have been developed at the national level that meet the information requirements of Annex V to the Convention they may continue to be used.

The Conference of the Parties at its seventh meeting in decision RC-7/2 urged parties to ensure the effective implementation of the Convention, including the obligations under paragraph 2 (c) of Article 11 and under Article 12 of the Convention.

2.6 Information to accompany exported chemicals (Article 13, paragraph 1 of the Convention)

In accordance with Article 13, paragraph 1 of the Convention, the World Customs Organization (WCO) has assigned specific Harmonized System (HS) customs codes to the individual chemicals or groups of chemicals listed in Annex III to the Rotterdam Convention. These codes entered into force on 1 January 2007. For the chemicals listed in Annex III after 2011, HS codes are expected to be assigned by the WCO in 2017.

Each Party shall require that whenever a HS customs code has been assigned to a chemical listed in Annex III, the shipping document carries this assigned code when the chemical is exported.

A table containing this information is also available on the Rotterdam Convention website (www.pic.int).

2.7 Transmittal of a response concerning future import of a chemical (Article 10, paragraphs 2, 3 and 4 of the Convention)

In accordance with Article 10, paragraph 2 of the Convention, each Party shall transmit to the Secretariat, as soon as possible, and in any event not 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.

Article 10, paragraph 7 of the Convention states that, each Party shall, no later than the date of entry into force of the Convention for that Party; transmit to the Secretariat import responses for each of the chemicals listed in Annex III to the Convention.

In line with Article 10, paragraph 4 of the Convention, the response shall consist of either a final decision or an interim response. The interim response may include an interim decision regarding

import. The response must relate to the category or categories specified for the chemical in Annex III to the Convention.

As of 31 October 2016, the following Parties have submitted import responses for all 47 chemicals listed in Annex III to the Convention: Albania, Australia, Brazil, China, Cook Islands, Chad, Mauritius, Niger, Senegal, Serbia, Switzerland and United Republic of Tanzania. 131 Parties have not yet provided import responses for one or more of the chemicals listed in Annex III to the Convention. The following 11 Parties have failed to provide any import responses: Afghanistan, Botswana, Djibouti, Lesotho, Maldives, Marshall Islands, Montenegro, Namibia, Saint Vincent and the Grenadines, Somalia and Ukraine.

When the Convention enters into force for new Parties, the Secretariat sends a welcome package. The package contains all information relevant to the implementation of the Convention together with the request for the submission of the outstanding import responses.

The list of “Cases of failure to transmit a response” in **Appendix IV** of the PIC Circular serves as a further reminder of the need to submit import responses for all chemicals in Annex III.

In order to facilitate the submission of responses regarding import, a *Form for import response* and instructions on how to complete it have been developed. Copies of the form and the instructions can be obtained from the Rotterdam Convention website (www.pic.int) or the Secretariat (pic@fao.org or pic@pic.int and pic@brsmeas.org) upon request.

Import responses must be submitted through the official channel of communication for the Party.

2.8 Information on responses received concerning future import of a chemical (Article 10, paragraph 10 and Article 11, paragraph 2 of the Convention)

Paragraph 10 of Article 10 states that every six months the Secretariat shall inform all Parties of the responses it has received, including a description of the legislative or administrative measures on which the decisions have been based, where available. The Secretariat shall, in addition, inform the Parties of any cases of failure to transmit a response.

Beginning with this volume (XLIV – December 2016) the PIC Circular has been streamlined. **Appendix IV** includes an overview of new import responses received in the last six months. The other parts of **Appendix IV** which include all import responses and a list of the Parties that failed to transmit an import response are available via hyperlink to the online database on the Convention website.¹ The objective is to make better use of the online database which is updated on an on-going basis.

The CD-ROM contains the previous edition of the PIC Circular (XLIII – June 2016), which includes a complete record of all of the Import Responses submitted up to 30 April 2016.

The Secretariat encourages Parties to submit any outstanding import responses for each of the 47 chemicals listed in Annex III to the Convention and wishes to draw the attention of DNAs to Article 11, paragraph 2 of the Convention in relation to the failure to transmit a response or the transmission of an interim response that does not contain an interim decision.

2.9 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 (Decisions RC-3/3, RC-4/4 and RC-6/8 of the Conference of the Parties)

Article 14, paragraph 1, states that each Party shall, as appropriate and in accordance with the objective of this Convention, facilitate: a) the exchange of scientific, technical, economic and legal information concerning the chemicals within the scope of this Convention, including toxicological,

¹ <http://www.pic.int/tabid/1370/language/en-US/Default.aspx>.

eco-toxicological and safety information; b) the provision of publicly available information on domestic regulatory actions relevant to the objectives of this Convention; and c) the provision of information to other Parties, directly or through the Secretariat, on domestic regulatory actions that substantially restrict one or more uses of the chemical, as appropriate.

The Conference of the Parties, in decisions RC-3/3 and RC-4/4 on inclusion of chrysotile asbestos in Annex III, and decision RC-6/8 on consideration of 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 for listing in Annex III to the Rotterdam Convention, encouraged Parties to make use of all information available on these 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 of the Convention. The full text of these decisions may be found in Annex I of the reports of the respective meetings of the Conference of the Parties (UNEP/FAO/RC/COP.3/26, UNEP/FAO/RC/COP.4/24, and UNEP/FAO/RC/COP.6/20).

In line with these decisions and in the interest of promoting information exchange on these chemicals, **Appendix VI** of the PIC Circular has been added to the Circular and divided into two parts.

Part A provides a reference to the information that has been provided by Parties on national decisions concerning the management of chrysotile asbestos 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. It is a tabular summary which provides details on the Party that submitted the information; the PIC Circular in which the information was circulated; and the web link to the relevant page of Rotterdam Convention website where the information may be found. In the section “Chemicals recommended for listing” on the Rotterdam Convention website, there is further information on these chemicals including the notifications of final regulatory action and supporting documentation that was made available to the Chemical Review Committee and the draft decision guidance documents.

Part B is a list of decisions on the future import of chrysotile asbestos 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 that have been submitted by Parties under Article 14. These import decisions are circulated for information only and do not constitute part of the legally binding PIC procedure.

This information, as well as further information relevant to the work of the Chemical Review Committee on this chemical, may be accessed directly on the Rotterdam Convention website (www.pic.int).

2.10 Information on transit movements (Article 14, paragraph 5 of the Convention)

As outlined in Article 14, paragraph 5 of the Convention, 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.

2.11 Questionnaire on pesticide definition

At the seventh meeting of the Conference of the Parties to the Rotterdam Convention, Parties called on the Secretariat to address problems in submission of import responses stemming from Parties employing different definitions of pesticides. The meeting agreed that the Secretariat would prepare a document to inform Parties about the existence of various definitions of the term “pesticides” and the implications resulting from the use of those definitions by Parties with regard to the implementation of

the Convention. The Secretariat would also carry out a survey on the use of the various definitions and publish the results of that survey on the Convention website and in the PIC Circular.

In response to this request, the Secretariat, in cooperation with the FAO pesticide management team, developed a questionnaire consisting of three basic questions relating to the existence of a definition for the term “pesticides” and its legal basis, any challenges faced with this definition and finally any other information deemed relevant in that context.

The questionnaire was launched on the Convention’s website. A total of 29 Parties have replied to the questionnaire. A detailed report and information on responses transmitted by Parties will be made available as an information document of the eighth meeting for the Conference of the Parties.

3. ADDITIONAL INFORMATION FOR DNAs

3.1 Information on the status of ratification of the Convention

The Convention entered into force on 24 February 2004, on the nintieth day after the date of the deposit of the fiftieth instrument of ratification, acceptance, approval or accession. For each State or regional economic integration organization that ratifies, accepts or approves this Convention or accedes thereto after the deposit of the fiftieth such instrument, the Convention shall enter into force on the ninetieth day after the date of deposit by such State or regional economic integration organization of its instrument of ratification, acceptance, approval or accession.

As of 31 October 2016 there were 155 Parties to the Rotterdam Convention. The Parties are:

Afghanistan, Albania, Antigua and Barbuda, Argentina, Armenia, Australia, Austria, Bahrain, Belgium, Belize, Benin, Bolivia (Plurinational State of), Bosnia and Herzegovina, Botswana, Brazil, Bulgaria, Burkina Faso, Burundi, Cabo Verde, Cambodia, Cameroon, Canada, Chad, Chile, China, Colombia, Congo (Democratic Republic of), Congo (Republic of), Cook Islands, Costa Rica, Côte d’Ivoire, Croatia, Cuba, Cyprus, Czech Republic, Democratic People’s Republic of Korea, Denmark, Djibouti, Dominica, Dominican Republic, Ecuador, El Salvador, Equatorial Guinea, Eritrea, Estonia, Ethiopia, European Union, Finland, France, Gabon, Gambia, Georgia, Germany, Ghana, Greece, Guatemala, Guinea, Guinea-Bissau, Guyana, Honduras, Hungary, India, Indonesia, Iran (Islamic Republic of), Ireland, Israel, Italy, Jamaica, Japan, Jordan, Kazakhstan, Kenya, Kuwait, Kyrgyzstan, Lao People’s Democratic Republic, Latvia, Lebanon, Lesotho, Liberia, Libya, Liechtenstein, Lithuania, Luxembourg, Macedonia (the Former Yugoslav Republic of), Madagascar, Malawi, Malaysia, Maldives, Mali, Marshall Islands, Mauritania, Mauritius, Mexico, Mongolia, Montenegro, Morocco, Mozambique, Namibia, Nepal, Netherlands, New Zealand, Nicaragua, Niger, Nigeria, Norway, Oman, Pakistan, Panama, Paraguay, Peru, Philippines, Poland, Portugal, Qatar, Republic of Korea, Republic of Moldova, Romania, Russian Federation, Rwanda, Saint Kitts and Nevis, Saint Vincent and the Grenadines, Samoa, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia, Singapore, Slovakia, Slovenia, Somalia, South Africa, Spain, Sri Lanka, Sudan, Suriname, Swaziland, Sweden, Switzerland, Syrian Arab Republic, Tanzania (United Republic of), Thailand, Togo, Tonga, Trinidad and Tobago, Tunisia, Uganda, Ukraine, United Arab Emirates, United Kingdom of Great Britain and Northern Ireland, Uruguay, Venezuela (Bolivarian Republic of), Viet Nam, Yemen, Zambia and Zimbabwe.

For those Parties for whom the Convention entered into force after 31 October 2016, all information will be reported in the next PIC Circular.

The Convention website (www.pic.int) gives a complete and up-to-date list of the States and regional economic integration organizations that have consented to be bound by the Rotterdam Convention.

3.2 List of documents in support of the implementation of the Rotterdam Convention

The following are documents relevant to the implementation of Rotterdam Convention. They can be obtained from the Rotterdam Convention website (www.pic.int) or the Secretariat (pic@fao.org or pic@pic.int and pic@brsmeas.org) upon request.

- Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade (*available in Arabic, Chinese, English, French, Russian and Spanish*);
- Decision guidance documents for each of the chemicals in Annex III to the Convention (*available in English, French and Spanish*);
- Form and instructions for notification of final regulatory action to ban or severely restrict a chemical (*available in English, French and Spanish*);
- Form and instructions for import responses (*available in English, French and Spanish*);
- Form and instructions for reporting human health incidents and environmental incidents relating to Severely Hazardous Pesticide Formulations (SHPF) (*available in English, French and Spanish*);
- Export notification form and instructions (*available in English, French and Spanish*);
- Form for notification of designation of contact(s) (*available in English, French and Spanish*);
- All past PIC Circulars (*available in English, French and Spanish*);
- Register of Designated National Authorities for the Rotterdam Convention (*available in English*).

3.3 Resource Kit of information on the Rotterdam Convention

The Resource Kit 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 general public, DNAs 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. All documents contained in the Resource Kit can be obtained from the Rotterdam Convention website (www.pic.int) or the Secretariat upon request (pic@fao.org or pic@pic.int and pic@brsmeas.org).

The Stepwise Guide is a document developed as an introduction to the Resource Kit and the publications it includes. It provides a brief outline of the content of each publication, indicates the target audience and lists the languages in which they are available (most publications are available in six languages).

The Secretariat can be contacted at the following addresses if there are any queries regarding aspects of the development and operation of the Rotterdam Convention:

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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 each notification of final regulatory action that has been verified to contain all the information requirements of Annex I to the Convention

Notifications of final regulatory action that have been verified to contain all the information requirements of Annex I to the Convention, received between 1 May 2016 and 31 October 2016.

Part B: Information on notifications of final regulatory action that have been verified to not contain all the information requirements of Annex I to the Convention

Notifications of final regulatory action that have been verified to not contain all the information requirements of Annex I to the Convention, received between 1 May 2016 and 31 October 2016.

Part C: Notifications of final regulatory action still under verification

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

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

PART A

SUMMARY OF EACH NOTIFICATION OF FINAL REGULATORY ACTION THAT HAS BEEN VERIFIED TO CONTAIN ALL THE INFORMATION REQUIREMENTS OF ANNEX I TO THE CONVENTION

BRAZIL

Common Name(s): Phorate **CAS number(s):** 298-02-2

Chemical Name: *O,O*-diethyl *S*-ethylthiomethyl phosphorodithioate

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 uses

Use or uses that remain allowed: None

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

Summary of the final regulatory action: Prohibition of all technical and formulated products based on phorate active ingredient. So, the production, use, trade, import and export of phorate had been banned.

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

Summary of known hazards and risks to human health: Phorate was an insecticide authorized in Brazil exclusively for agricultural use in cotton, potato, coffee, beans and corn. In 2008 Brazilian Health Surveillance Agency (ANVISA) initiated the toxicological reassessment of phorate due to evidences of high acute toxicity and neurotoxicity of this active ingredient of pesticides.

Brazilian law predicts that pesticides may have their registrations cancelled in the country when they fall under the following conditions related to human health: when they have no antidote or effective treatment in Brazil; if found teratogenic, mutagenic or carcinogenic; if they cause hormonal disturbances and damage to the reproductive system or if they are more dangerous to humans than demonstrated with laboratory animals.

Phorate and its metabolites are easily absorbed through skin and mucous membranes and irreversibly block the catalytic activity of acetylcholinesterase (AChE), the enzyme responsible for mediating the hydrolysis of acetylcholine in acetic acid and choline acid. Thus, they interrupt the transmission of nerve impulses in the cholinergic synapses of the central nervous system (CNS), autonomic nervous system (ANS) and neuromuscular junction. Inactivation of AChE causes cholinergic hyperstimulation by the acetylcholine accumulation in the synaptic cleft.

Phorate is considered one of the most toxic organophosphate AChE inhibitors, with mean oral LD50 for mice ranging from 1.4 to 10 mg/kg body weight.

Phorate can cause complex clinical manifestations in humans, such as encephalopathy, intermediate syndrome and polyneuropathy, described by various authors (Young, Jung; Ayer, 1979; Kashyap et al., 1984; WHO/FAO, 1988; Kusic et al., 1991; Dobozy, 1998; Das and Jena, 2000; Thanal, 2001; Jayakumar, 2002; Mission, 2006; Peter; Prabhakar; Picharnuthu, 2008 a; 2008 b).

However, in laboratory animals that received phorate there were no cases of intermediate syndrome or late polyneuropathy, what shows this pesticide is more toxic to humans than demonstrated in tests with laboratory animals, a prohibitive criterion for registration of pesticides in Brazil.

Besides its neurotoxic effects, phorate demonstrated potential to cause adverse effects to the endocrine regulation processes of steroid hormones in humans (Usmani, 2003), which may contribute to increased cancer case (Alavanja, et al., 2002; Mahajan et al., 2006; Koutros et al., 2010).

With regard to human exposure Usha and Harikrishnan (2004) reported several cases of acute poisoning in communities of Kerala, India. Among these cases, 5 of them, occurred between 1999 and 2002, are associated to exposure to phorate. According to the authors, in July 1999, about 12 people living in banana crop areas were severely poisoned by phorate.

After the product use, it rained on the region, causing the product evaporate quickly and spread to nearby area, reaching the homes. Shortly after application of the product, the symptoms appeared and the affected required hospitalization. In June 2001, a 16 year-old boy died as a result of occupational exposure to phorate for a period of one week. That same year, 40 rural women workers in a tea plantation were intoxicated during harvesting,

Symptoms appeared within 30 minutes after exposure, featured by light-headedness, dizziness, blurred vision, vomiting. Thirty seven women had more severe and remained hospitalized for two days. The authors point out that in July 2002, 31 children from an upper primary school were poisoned by phorate applied in plantation nearby school.

The children showed persistent headache, chest pain, breathing difficulty, nausea, giddiness, blurring of vision and stomach pain, and one of them showed uncontrolled muscle twitching and convulsions even after 24 hours of treatment.

On 21 July 2006, 20 residents of Salkiana village, district Jalandhar, India, had to be rushed to a hospital when neurotoxic symptoms of acute exposure to phorate were observed, the product was used in a nearby sugarcane field. The worst affected were the school children of an Elementary School. Teachers and Students started complaining of a strange smell and breathlessness, suddenly one student fell unconscious and then students started to faint. Within ten minutes, 16 students fainted after inhaling something that was toxic, In addition to difficulty breathing, the most frequent symptoms were poorly being, headache, eye irritation, dizziness, nausea, vomiting, lacrimation, salivation excessively muscle cramps and pain, Six days after exposure to phorate, several patients still had symptoms such as eye irritation, dermal reactions and general uneasiness (Mission, 2006).

Several studies show that agricultural workers exposed to phorate are victims of poisonings and deaths related to toxicity characteristics of the active ingredient. The exposure becomes even more dangerous due to the difficulties relating to the availability and/or inefficiency of PPE, Moreover, this various social issues (low education, low income) and biological (age and gender) are factors that increase the risk and severity of poisoning caused by this organophosphate.

Therefore, from the re-evaluation of the health effects of phorate, completed in 2015, ANVISA concluded this active ingredient of pesticides has the potential to cause hormonal disturbances in humans and is more toxic to humans than demonstrated in tests with laboratory animals, which are prohibitive criteria for registration of pesticides in Brazil.

Phorate was banned in Brazil on March 16, 2014, where it was no longer marketed since 2011.

Expected effect of the final regulatory action in relation to human health: Eliminate the risks posed by phorate.

Date of entry into force of the final regulatory action: 16/03/2015

JAPAN

Common Name(s): Endosulfan	CAS number(s):	115-29-7, 959-98-8, 33213-65-9
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Chemical Name: 6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide

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: Agricultural Chemicals.

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: All uses.

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

Summary of the final regulatory action: This Chemical is designated as class I Specified Chemical Substances. It is prohibited to manufacture, import or use this chemical substance.

The sale and use of this chemical as agricultural chemicals are prohibited.

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

Summary of known hazards and risks to human health: This Chemical is persistent, highly bioaccumulative and has long term toxicity to humans.

Expected effect of the final regulatory action in relation to human health: Reduction of human exposure to this substance as its use is phased out.

Date of entry into force of the final regulatory action: 01/05/2014

JAPAN

Common Name(s): Hexabromocyclododecane (HBCD) **CAS number(s):** 25637-99-4

Chemical Name: Hexabromocyclododecane (HBCD)

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: All uses.

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

Summary of the final regulatory action: This chemical is designated as Class I Specified Chemical Substances. It is prohibited to manufacture, import or use this chemical substance.

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

Summary of known hazards and risks to human health: This chemical is persistent, highly bioaccumulative and has long-term toxicity to humans.

Expected effect of the final regulatory action in relation to human health: Reduction of human exposure to this substance as its use is phased out.

Date of entry into force of the final regulatory action: 01/05/2014

JAPAN

Common Name(s): Pentachlorophenol and its salts and esters **CAS number(s):** 87-86-5,
131-52-2,
27735-64-4,
3772-94-9

Chemical Name: Phenol, pentachloro-

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: Agricultural Chemicals.

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: All uses.

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

Summary of the final regulatory action: This chemical is designated a Class I specified Chemical Substances. It is prohibited to manufacture, import or use this chemical substance.

The sale and use of this chemical as agricultural chemicals are prohibited.

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

Summary of known hazards and risks to human health: This chemical is persistent, highly bioaccumulative and has long term toxicity to humans.

Expected effect of the final regulatory action in relation to human health: Reduction of human exposure to this substance as its use is phased out.

Date of entry into force of the final regulatory action: 01/05/2016

JAPAN

Common Name(s): Polychlorinated naphthalenes (PCNs) (Cl:2≤)
CAS number(s): 28699-88-9,
1321-65-9,
1335-88-2,
1321-64-8,
1335-87-1,
32241-08-0,
2234-13-1

Chemical Name: Polychlorinated naphthalenes (PCNs)

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: All uses.

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

Summary of the final regulatory action: This chemical is designated as Class I Specified Chemical Substances. It is prohibited to manufacture, import or use this chemical substance.

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

Summary of known hazards and risks to human health: This chemical is persistent, highly bioaccumulative and has long-term toxicity to humans.

Expected effect of the final regulatory action in relation to human health: Reduction of human exposure to this substance as its use is phased out.

Date of entry into force of the final regulatory action: 01/04/2016.

This notification replaces all previously submitted notifications on this chemical.

Date of issue of the previous notification: 1st September 2004.

JORDAN

Common Name(s): Carbon tetrachloride
CAS number(s): 56-23-5

Chemical Name: Tetrachloromethane

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: Shall not be used in concentrations equal to or greater than 0,1% by weight in substances and preparations placed on the market for sale to the general public and/or in diffusive applications such as in surface cleaning and cleaning of fabrics.

Use or uses that remain allowed: It is allowed to be used in:

- Industrial installations' only;
- Laboratories and research centres.

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

Summary of the final regulatory action:

Carbon tetrachloride shall not be used in concentrations equal to or greater than 0,1% by weight in substances and preparations placed on the market for sale to the general public and/or in diffusive applications such as in

surface cleaning and cleaning of fabrics.

Based on the decision of Ministry of Health, allowed to be used in:

- Industrial installation only;
- Laboratories and research centres.

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

Summary of known hazards and risks to human health: The substance is irritating to the eyes. The substance may cause effects on the liver, kidneys and central nervous system, resulting in unconsciousness. Medical observation is indicated. Repeated or prolonged contact with skin may cause dermatitis. This substance is possibly carcinogenic to humans.

Expected effect of the final regulatory action in relation to human health: The decision was put in place as a precautionary measure to protect the health of Jordanian people by ensuring that future importation and use of carbon tetrachloride is prohibited with very limited exemptions.

Summary of known hazards and risks to the environment: The substance is harmful to aquatic organisms. This substance may be hazardous in the environment; special attention should be given to its impact on the ozone layer.

Expected effect of the final regulatory action in relation to the environment: The decision was put in place as a precautionary measure to protect the ecosystems by ensuring that future importation and use of carbon tetrachloride is prohibited with very limited exemptions.

Date of entry into force of the final regulatory action: 16/08/2005.

This notification replaces all previously submitted notifications on this chemical.

Date of issue of the previous notification: 21/10/2015

MALAYSIA

Common Name(s): Prothiofos **CAS number(s):** 34643-46-4

Chemical Name: O-(2,4-Dichlorophenyl) O-ethyl S-propyl phosphorodithioate

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 for agricultural uses.

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

Summary of the final regulatory action: The use of Prothiofos as a pesticide was banned starting January 1, 2015. This ban will be enforced to all import, export, manufacture, use and sale except for limited amount for research and education purpose subject to approval by Pesticide Board Malaysia.

A circular was issued on May 16, 2014 informing the termination of prothiofos.

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

Date of entry into force of the final regulatory action: 01/01/2015

MALAYSIA

Common Name(s): Profenofos **CAS number(s):** 41198-08-7

Chemical Name: O-(4-Bromo-2-chlorophenyl) O-ethyl S-propyl 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 for agriculture uses.

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

Summary of the final regulatory action: The use of profenofos as a pesticide was banned starting January 1, 2015. This ban will be enforced to all import, export, manufacture, use and sale except for limited amount for research and education purpose subject to approval by Pesticide Board Malaysia.

A circular was issued on May 16, 2014 informing the termination of profenofos registration. Registrants have been given a period from 1st July 2014 until December 31, 2014 for stock clearance in the market.

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

Date of entry into force of the final regulatory action: 01/01/2015.

MALAYSIA

Common Name(s): Quinalphos **CAS number(s):** 13593-03-8

Chemical Name: *O,O*-Diethyl *O*-2-quinoxalinylnyl 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 for agriculture uses.

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

Summary of the final regulatory action: The use of quinalphos as a pesticide was banned starting January 1, 2015. This ban will be enforced to all import, export, manufacture, use and sale except for limited amount for research and education purpose subject to approval by Pesticide Board Malaysia.

A circular was issued on May 16, 2014 informing the termination of quinalphos. Registrants have been given a period from 1st July 2014 until December 31, 2014 for stock clearance in the market.

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

Date of entry into force of the final regulatory action: 01/01/2015.

MALAYSIA

Common Name(s): Phenthoate **CAS number(s):** 2597-03-7

Chemical Name: *S*-alpha-ethoxycarbonylbenzyl *O,O*-dimethyl phosphorodithioate

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 for agriculture uses.

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

Summary of the final regulatory action: The use of phenthoate as a pesticide was banned starting January 1, 2015. This ban will be enforced to all import, export, manufacture, use and sale except for limited amount for research and education purpose subject to approval by Pesticide Board Malaysia.

A circular was issued on May 16, 2014 informing the termination of phenthoate registration. Registrants have been given a period from 1st July 2014 until December 31, 2014 for stock clearance in the market.

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

Date of entry into force of the final regulatory action: 01/01/2015.

MALAYSIA

Common Name(s): Triazophos **CAS number(s):** 24017-47-8

Chemical Name: *O,O*-diethyl *O*-(1-phenyl-1H-1,2,4-triazol-3-yl) 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 for agriculture uses

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

Summary of the final regulatory action: The use of triazophos as a pesticide was banned starting January 1, 2015. This ban will be enforced to all import, export, manufacture, use and sale except for limited amount for research and education purpose subject to approval by Pesticide Board Malaysia.

A circular was issued on May 16, 2014 informing the termination of triazophos registration. Registrants have been given a period from 1st July 2014 until December 31, 2014 for stock clearance in the market.

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

Date of entry into force of the final regulatory action: 01/01/2015.

NORWAY

Common Name(s): Hexabromocyclododecane	CAS number(s):	3194-55-6, 25637-99-4, 134237-50-6, 134237-51-7, 134237-52-8
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Chemical Name: 1,2,5,6,9,10-Hexabromocyclododecane

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: It is prohibited to manufacture, import, export, placing on the market and use substances that contain 0.01 per cent by weight or more of hexabromocyclododecane (HBCDD) (CAS number 25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8).

It is prohibited to manufacture, import, export and make available on the market products or flame retarded parts of products that contain 0.01 per cent by weight or more of hexabromocyclododecane (CAS number 25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8).

Use or uses that remain allowed: The use of hexabromocyclododecane, whether on its own or in preparations, in the production of expanded polystyrene articles, and the production and placing on the market of hexabromocyclododecane for such use, shall be allowed provided that such use has been authorised in accordance with Title VII of Regulation (EC) No 1907/2006 of the European Parliament and of the Council(*), or is the subject of an application for authorisation submitted by 21 February 2014 where a decision on that application has yet to be taken.

The placing on the market and use of hexabromocyclododecane, whether on its own or in preparations, in accordance with this paragraph shall only be allowed until 26 November 2019 or, if earlier, the date of expiry of the review period specified in an authorisation decision or the date of withdrawal of that authorisation pursuant to Title VII of Regulation (EC) No 1907/2006.

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

Summary of the final regulatory action: Regulations to restrict production, import, export or sale of consumer products that contain HBCDD exceeding certain limit values.

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

Summary of known hazards and risks to human health: HBCDD is used in several products, some of which are available to consumer, e.g. textiles in furniture, automobile interior textiles, construction boards, and mattress ticking. In most applications HBCDD is present as non-bound within a polymer, and may migrate from the polymer and be released.

Consumers may be exposed to HBCDD by dermal, oral and respiratory route.

HBCDD has been detected in breast milk and plasma from Norwegian mothers. In 1986, 1993 and 2001, Norwegian breast milk samples were obtained from 10-12 primiparous mothers living in a coastal area in the North (Tromsø), in a rural inland area (Hamar), and in an industrialized area in the South Norway

(Skin/Porsgrunn). Samples collected in 1993 and 2001 in Tromsø, Hamar and Skien/Porsgrunn were pooled. From the 1986 study, only two individual samples from Tromsø were available. HBCDD was found in all samples, but at very varying levels, range 0.25-2 ng/g lipids (Thomsen et al., 2003). HBCDD levels in plasma from 10 pregnant women living in Bodø, Norway and from 10 women living in Taimyr, Russia were analysed by LC-MS. The samples were collected in August-December 2002. The women's ages were 20-35 and they had all giving birth to one child before. None of the locations had any known local HBCDD source. HBCDD was detected in more than half of the samples but at low concentrations, close to the limit of detection. The Norwegian samples median and range values were (pg/ml plasma): α -HBCDD 19 (<11-345), β -HBCDD 7 (5-343), γ -HBCDD 23 (7-317) and the Russian samples median and range values were: α -HBCDD 21(<11-51), β -HBCDD 8 (<5-126), γ -HBCDD 33 (13- 160) (Odland et al., 2005).

Expected effect of the final regulatory action in relation to human health: Reduced exposure levels to HBCDD.

Summary of known hazards and risks to the environment: HBCDD is persistent in the environment and bioaccumulates. It has been detected widespread in the Norwegian environment in both remote and urban/suburban areas. Concerns are linked to the degree of bioaccumulation in several food chains and for Arctic organisms, in particular, which are affected by multiple stressors due to climate changes and high body burden of several pollutants.

HBCDD has been detected in effluent water and sludge in urban STPs in Norway. The concentration detected in the effluent water ranged from about 0.0005 μg HBCDD/l from Bekkelaget to about 0.025 μg HBCDD/l from Høvringen. The concentrations in sludge ranged from parts of μg HBCDD/kg dwt at Bekkelaget to about fifty in sludge from Høvringen (Fjeld et al., 2005). The authors also analysed leachate water and sludge from landfills. The concentrations of HBCDD in untreated leachate water, and sludge ranged from 0.00036-0.149 μg HBCDD/l, and 0.16-9.95 μg HBCDD/kg dwt. The highest concentrations were measured at the Djupvik landfill. The concentration in the rinsed sample was 34-67 % of that in the untreated water samples (Fjeld and co-workers, 2005).

A screening of the occurrence of HBCDD in the Norwegian environment was performed by Fjeld et al. (2005). Sediment samples were taken from the freshwater environment from 6 localities in the southern Norway. From each sampling station 5-8 samples were taken from the upper layer 0-2 cm. Fjeld and co-workers (2006b) measured HBCDD in surface sediments in Lake Mjøsa in Norway. Elevated concentrations of HBCDD (8-21 μg HBCDD/kg dwt) were found outside of the town of Lillehammer and the Vingrom station, as compared to the commonly found levels (0.5-2 μg HBCDD/kg dwt). These elevated concentrations were considered to reflect that a textile factory in Lillehammer used HBCDD in their production in recent years. Only slightly elevated concentrations (2-6.5 μg HBCDD/kg dwt) were found at a few other urban sediment stations. The dated sediment core at the Vingrom station showed an evident increase in the HBCDD concentration from the late 1990s, with a maximum level in the surface layer. The other dated cores showed only a small increase in the HBCDD concentration towards the sediment surface. Schlabach et al. (2002) measured HBCDD in sedimentation basins for leachate waters from six landfills in southern Norway. The concentrations ranged from below the detection limit in Drammen to 84 ng HBCDD/kg wwt in the landfill from Kristiansand. Sediment samples from the Drammens River had detectable concentrations of α -HBCDD and γ -HBCDD (Schlabach et al., 2004). Surprisingly high concentrations of approx. 8000 μg HBCDD/kg dwt have been detected in the Norwegian Åsnefjord, which receives waste water from e.g. an EPS formulator.

HBCDD has also been found in the biota in Norway. Fjeld and co-workers (2005) sampled mussels along the Norwegian coast and in Norwegian fjords. Most values ranged from about 0.2-2.3 μg HBCDD/kg wwt. However, concentrations from 55-329 μg HBCDD/kg wwt were detected in the Åsne fjord, where a manufacturer of EPS beads is situated.

Fjeld (2006a) reported concentrations of HBCDD in European smelt (*Osmerus eperlanus*), Vendace (*Coregonus albula*), and Brown Trout (*Salmo trutta trutta*) from lake Mjøsa in Norway. European smelt and Vendace are important preyfish for the trout. The concentrations detected in 2005 were 466 μg HBCDD/kg lwt (8.8 μg HBCDD/kg wwt), 374 μg HBCDD/kg lwt (10.7 μg HBCDD/kg wwt), 729 μg HBCDD/kg lwt (18 μg HBCDD/kg wwt) for the European smelt, the Vendace, and the Brown trout, respectively.

HBCDD is also transported with air and particles, and has been detected in moss (*Hylocomium splendens*) in Norway. The highest concentrations were detected on the south-southwest coast, and in general decreased from south to north. The concentrations detected span almost four orders of magnitude from below the limit of detection to 11114 μg HBCDD/kg wwt.

Murvoll and co-workers (2006) analysed yolk sac from newly hatched chicks of the European shag from the

island Sklinna, 50 km of the coast of mid-Norway. HBCDD was detected in all specimens, with a mean concentration of 29 µg HBCDD/kg wwt, or 417 µg HBCDD/kg lwt. The concentration of HBCDD was higher than any of the PBDE congener.

Furthermore, HBCDD has been detected in remote areas as the Arctic. HBCDD has been measured in sediment in Lake Ellasjøen at the arctic Bear Island, north of Norway (Christensen et al., 2004). The α- and γ-diastereomers of HBCDD were detected in sediment at 1-2 cm depth, i.e. from the period 1973-1987. HBCDD was not found in the layers from the period 1987-2001 nor from the period 1934-1973. The β- diastereomer was not at all found.

Jenssen et al. (2004) measured brominated flame retardants (including HBCDD) in the arctic marine food web in the Svalbard area in the North-Atlantic. The concentration of HBCDD increased with increasing trophic level, except for the polar bear which may indicate a capability of metabolising the substance for the polar bear. No HBCDD was detected in the lower pelagic zooplankton species *Calanus glacialis*, *Thysanoessa inermis*, and *Parrattemisto libellula*. The levels detected in polar cod, ringed seal, and polar bear ranged from 5-25 µg HBCDD/kg lwt, 15-35 µg HBCDD/kg lwt, and 5-15 µg HBCDD/kg lwt, respectively. Gabrielsen et al. (2004) measured halogenated organic contaminants, including HBCDD, in adipose tissue of Polar Bears from Svalbard north of Norway in the arctic region. The arithmetic mean value was 25.6 µg HBCDD/kg wwt, with a range of 9.7-45 µg HBCDD/kg wwt (all of the 15 measurements were above the limit of detection).

Temporal trends:

Knudsen et al. (2005) analysed eggs from Atlantic puffins, Herring gull, and Kittywake from northern Norway (Hornøya and Røst) from 1983, 1993, and 2003. The HBCDD levels have increased with a factor about 5-8 over 20 years from 1.1-2.9µg/kg wwt 1983 to 6.1-17 µg/kg wwt 2003.

Bytingsvik and co-workers (2004) reported a temporal trend for HBCDD in Atlantic cod (liver) caught at the estuary of river Glomma, as the concentration increased significantly, 8 or 3-4 times from 1998 to 2003, when expressed on a wwt or lwt basis, respectively.

Expected effect of the final regulatory action in relation to the environment: Reduced levels of HBCDD in the Norwegian environment and thus reduced risk of adverse effect on the wildlife.

Date of entry into force of the final regulatory action: 09/07/2016.

Synopsis of notifications of final regulatory action received since the last PIC Circular**PART B****INFORMATION ON NOTIFICATIONS OF FINAL REGULATORY ACTION THAT
HAVE BEEN VERIFIED TO NOT CONTAIN ALL THE INFORMATION
REQUIREMENTS OF 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 May 2016 and 31 October 2016.

PART C**NOTIFICATIONS OF FINAL REGULATORY ACTION STILL UNDER
VERIFICATION**

No notifications of final regulatory action have been received by the Secretariat for which the verification process has not yet been completed.

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 I OF ANNEX IV TO THE CONVENTION**

There are no proposals for inclusion of severely hazardous pesticide formulations that have been verified to contain all information requested by Part I of Annex IV to the Convention.

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

No proposals for inclusion of severely hazardous pesticide formulations in the PIC procedure are currently under verification by the Secretariat.

APPENDIX III

CHEMICALS SUBJECT TO THE PIC PROCEDURE

Chemical	CAS number(s)	Category	Date of first dispatch of decision guidance document
2,4,5-T and its salts and esters	93-76-5*	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
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*	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
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*	Pesticide	Prior to adoption of Convention
Toxaphene	8001-35-2	Pesticide	1 February 2005

Chemical	CAS number(s)	Category	Date of first dispatch of decision guidance document
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
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

Chemical	CAS number(s)	Category	Date of first dispatch of decision guidance document
Perfluorooctane sulfonic acid, perfluorooctane sulfonates, perfluorooctane sulfonamides and perfluorooctane sulfonyls including: <ul style="list-style-type: none"> - Perfluorooctane sulfonic acid - Potassium perfluorooctane sulfonate - Lithium perfluorooctane sulfonate - Ammonium perfluorooctane sulfonate - Diethanolammonium perfluorooctane sulfonate - Tetraethylammonium perfluorooctane sulfonate - Didecyldimethylammonium 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
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
Tetraethyl lead	78-00-2	Industrial	1 February 2005
Tetramethyl lead	75-74-1	Industrial	1 February 2005
Tris(2,3-dibromopropyl) phosphate	126-72-7	Industrial	Prior to adoption of Convention

*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.

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 within an online database on the Convention website: <http://www.pic.int/tabid/1370/Default.aspx>.

The online database is presented under 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 new import responses received since the last PIC Circular (between 1 May 2016 and 31 October 2016) may be viewed under the first tab “Import responses recently transmitted”. The overview of those new 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”.

A list of those Parties which have failed to provide a response regarding future import of a chemical within 9 months of the date of dispatch of the decision guidance document may be viewed 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

Armenia

Alachlor

Gabon

Mauritius

Samoa

Viet Nam

Aldicarb

Burundi

Mauritius

Samoa

Viet Nam

Aldrin

Armenia

Gabon

Azinphos-methyl

Mauritius

Panama

Samoa

Viet Nam

Binapacryl

Gabon

Captafol

Armenia

Gabon

Chlordane

Armenia

Chlordimeform

Armenia

Gabon

Chlorobenzilate

Armenia

Gabon

DDT

Armenia

Gabon

Dieldrin

Armenia

Gabon

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

Samoa

Viet Nam

Dinoseb and its salts and esters

Armenia

Gabon

1,2-dibromoethane (EDB)

Armenia

Endosulfan

Gabon

Mauritius

Samoa

Ethylene dichloride

Gabon

Morocco

Ethylene oxide

Gabon

Sri Lanka

Fluoroacetamide

Armenia

Gabon

HCH (mixed isomers)

Armenia

Gabon

Heptachlor

Armenia

Hexachlorobenzene

Armenia

Gabon

Lindane (gamma-HCH)

Armenia

Gabon

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

Armenia

Methamidophos

Armenia

Chad

China

Cook Islands

Mauritius

Russian Federation
Sri Lanka
United Republic of Tanzania

Monocrotophos

Gabon
Samoa

Parathion

Gabon
Samoa

Pentachlorophenol and its salts and esters

Armenia
Gabon

Toxaphene (Camphechlor)

Gabon

Tributyl tin compounds

Mauritius
Viet Nam

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%

Gabon
Samoa
Viet Nam

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

Armenia

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

Armenia

Industrial Chemicals

Actinolite asbestos

Gabon
Republic of Moldova

Amosite asbestos

Gabon
Republic of Moldova

Anthophyllite

Gabon
Republic of Moldova

Crocidolite

Gabon
Republic of Moldova

Tremolite

Gabon
Republic of Moldova

Commercial octabromodiphenyl ether (including hexabromodiphenyl ether and heptabromodiphenyl ether)

Gabon
Mauritius
Norway

Commercial pentabromodiphenyl ether (including tetrabromodiphenyl ether and pentabromodiphenyl ether)

Gabon
Mauritius
Norway

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

Gabon
Mauritius

Polybrominated Biphenyls (PBBs)

Pakistan

Polychlorinated Biphenyls (PCBs)

Pakistan

Polychlorinated Terphenyls (PCTs)

Pakistan

Tetraethyl lead

Gabon
Pakistan
Republic of Moldova

Tetramethyl lead

Gabon
Pakistan
Republic of Moldova

Tris(2,3 dibromopropyl)phosphate

Gabon
Pakistan

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

This appendix consists of two parts:

Part A: Tabular summary of notifications of final regulatory action for banned or severely restricted chemicals not included in Annex III and verified to contain the information requirements of Annex I to the Convention

The tabular summary lists each notification received during the interim PIC procedure and the current PIC procedure (September 1998 to 31 October 2016) verified as containing the information requirements of Annex I to the Convention. It also indicates in which PIC Circular the summary was published. The Rotterdam Convention website (www.pic.int) has information regarding all the PIC Circulars and summaries of notifications.

Summaries of notifications submitted by Parties for the chemicals listed in Annex III to the Convention verified as containing the information requirements of Annex I to the Convention have been included in the section “Notifications of final regulatory action database” on the Rotterdam Convention website (www.pic.int).

Part B: Tabular summary of notifications of final regulatory action for banned or severely restricted chemicals not included in Annex III and verified to not contain the information requirements of Annex I to the Convention

The tabular summary lists each notification received during the interim PIC procedure and the current PIC procedure (September 1998 to 31 October 2016) verified to not contain the information requirements of Annex I to the Convention. It also indicates in which Circular information was published. Further information can be found on the Convention website (www.pic.int).

Notifications of final regulatory action for chemicals not included in Annex III**PART A****TABULAR SUMMARY OF NOTIFICATIONS OF FINAL REGULATORY ACTION FOR BANNED OR SEVERELY RESTRICTED CHEMICALS NOT INCLUDED IN ANNEX III AND VERIFIED TO CONTAIN THE INFORMATION REQUIREMENTS OF ANNEX I TO THE CONVENTION**

The Secretariat has verified that the following notifications for chemicals not included in Annex III contain the information requirements of Annex I to the Convention.

Chemical name	CAS number	Category	Country	Region	Published in PIC Circular
1,1,1,2-Tetrachloroethane	630-20-6	Industrial chemical	Latvia	Europe	XX
1,1,1-Trichloroethane	71-55-6	Industrial chemical	Latvia	Europe	XX
1,1,2,2-Tetrachloroethane	79-34-5	Industrial chemical	Latvia	Europe	XX
1,1,2-Trichloroethane	79-00-5	Industrial chemical	Latvia	Europe	XX
1,1-Dichloroethylene	75-35-4	Industrial chemical	Latvia	Europe	XX
1,3-Dichloropropene	542-75-6	Pesticide	European Union	Europe	XXXVI
2-Nitrobenzaldehyde	552-89-6	Industrial chemical	Latvia	Europe	XX
2,4,5-TP (Silvex; Fenoprop)	93-72-1	Pesticide	Thailand	Asia	XIV
2,4,6-Tri-tert-butylphenol	732-26-3	Industrial chemical	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 chemical	Japan	Asia	XXI
2-Naphthylamine	91-59-8	Industrial chemical	Latvia	Europe	XX
2-Naphthylamine	91-59-8	Industrial chemical	Republic of Korea	Asia	XX
2-Naphthylamine	91-59-8	Industrial chemical	Switzerland	Europe	XXIII
2-Propen-1-ol, reaction products with pentafluoroiodoethane tetrafluoroethylene telomer, dehydroiodinated, reaction products with epichlorohydrin and triethylenetetramine	464178-90-3	Industrial chemical	Canada	North America	XLI
2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with butyl 2-propenoate and 2,5 furandione, gamma-omega-perfluoro-C8-14-alkyl esters, tert-Bu benzenecarboxperoxoate-initiated	459415-06-6	Industrial chemical	Canada	North America	XLI
2-Propenoic acid, 2-methyl-, hexadecyl ester, polymers with 2-hydroxyethyl methacrylate, gamma-omega-perfluoro-C10-16-alkyl acrylate and stearyl methacrylate	203743-03-7	Industrial chemical	Canada	North America	XLI
4-Aminobiphenyl	92-67-1	Industrial chemical	Japan	Asia	XXI
4-Aminobiphenyl	92-67-1	Industrial chemical	Latvia	Europe	XX
4-Aminobiphenyl	92-67-1	Industrial chemical	Republic of Korea	Asia	XX
4-Aminobiphenyl	92-67-1	Industrial chemical	Switzerland	Europe	XXIII

Chemical name	CAS number	Category	Country	Region	Published in PIC Circular
4-Nitrobiphenyl	92-93-3	Industrial chemical	Japan	Asia	XXI
4-Nitrobiphenyl	92-93-3	Industrial chemical	Latvia	Europe	XX
4-Nitrobiphenyl	92-93-3	Industrial chemical	Switzerland	Europe	XXIII
Acephate	30560-19-1	Pesticide	European Union	Europe	XVIII
Allyl alcohol	107-18-6	Pesticide	Canada	North America	XXII
Aluminium phosphide	20859-73-8	Pesticide & Industrial chemical	Japan	Asia	XX
Aminopyralid	150114-71-9	Pesticide	Norway	Europe	XXXIII
Amitraz	33089-61-1	Pesticide	European Union	Europe	XXI
Amitraz	33089-61-1	Pesticide	Iran (Islamic Republic of)	Asia	XXX
Amitraz	33089-61-1	Pesticide	Syrian Arab Republic	Near East	XXXII
Amitrole	61-82-5	Pesticide	Thailand	Asia	XX
Ammonium hydrogen sulfide	12124-99-1	Industrial chemical	Latvia	Europe	XX
Ammonium polysulfide	9080-17-5	Industrial chemical	Latvia	Europe	XX
Anthracene oil	90640-80-5	Industrial chemical	Latvia	Europe	XX
Aramite	140-57-8	Pesticide	Thailand	Asia	XIV
Arsenic compounds	7440-38-2	Industrial chemical	Latvia	Europe	XX
Arsenic pentoxide	1303-28-2	Industrial chemical	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	European Union	Europe	XXI
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
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
Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)	68921-45-9	Industrial chemical	Canada	North America	XLII
Benzene	71-43-2	Industrial chemical	Latvia	Europe	XX
Benzidine	92-87-5	Industrial chemical	Canada	North America	XXI
Benzidine	92-87-5	Industrial chemical	Canada	North America	XXVIII
Benzidine	92-87-5	Industrial chemical	Jordan	Near East	XLII
Benzidine	92-87-5	Industrial chemical	Republic of Korea	Asia	XX
Benzidine	92-87-5	Industrial chemical	Latvia	Europe	XX
Benzidine and its salts	92-87-5	Industrial chemical	India	Asia	XX
Benzidine and its salts	92-87-5	Industrial chemical	Japan	Asia	XXI

Chemical name	CAS number	Category	Country	Region	Published in PIC Circular
Benzidine and its salts	92-87-5	Industrial chemical	Jordan	Near East	XVIII
Benzidine and its salts	92-87-5	Industrial chemical	Switzerland	Europe	XXIII
b-Hexachlorocyclohexane	319-85-7	Industrial chemical	Japan	Asia	XXXII
b-Hexachlorocyclohexane	319-85-7	Pesticide	Japan	Asia	XXXIII
b-Hexachlorocyclohexane	319-85-7	Pesticide	Thailand	Asia	XX
Bifenthrin	82657-04-3	Pesticide	Netherlands	Europe	XIV
Bis(2-chloroethyl)ether	111-44-4	Industrial chemical	Republic of Korea	Asia	XX
Bis(chloromethyl)ether	542-88-1	Industrial chemical	Canada	North America	XII
Bis(chloromethyl)ether	542-88-1	Industrial chemical	Japan	Asia	XXI
Bis(chloromethyl)ether	542-88-1	Industrial chemical	Republic of Korea	Asia	XX
Bitertanol	55179-31-2	Pesticide	Norway	Europe	XXXV
Bromobenzylbromotoluene	99688-47-8	Industrial chemical	Latvia	Europe	XX
Bromobenzylbromotoluene	99688-47-8	Industrial chemical	Switzerland	Europe	XXIII
Bromochlorodifluoromethane (Halon 1211)	353-59-3	Industrial chemical	Canada	North America	XIII
Bromochloromethane	74-97-5	Industrial chemical	Thailand	Asia	XXIV
Bromotrifluoromethane	75-63-8	Industrial chemical	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 chemical	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
Carbofuran	1563-66-2	Pesticide	Cabo Verde	Africa	XLI
Carbofuran	1563-66-2	Pesticide	Canada	North America	XL
Carbofuran	1563-66-2	Pesticide	Chad	Africa	XLI
Carbofuran	1563-66-2	Pesticide	European Union	Europe	XXXV
Carbofuran	1563-66-2	Pesticide	Gambia	Africa	XLI
Carbofuran	1563-66-2	Pesticide	Mauritania	Africa	XLI
Carbofuran	1563-66-2	Pesticide	Niger	Africa	XLI
Carbofuran	1563-66-2	Pesticide	Senegal	Africa	XLI
Carbofuran	1563-66-2	Pesticide	Togo	Africa	XLI
Carbon tetrachloride	56-23-5	Pesticide & Industrial chemical	Canada	North America	XII
Carbon tetrachloride	56-23-5	Industrial chemical	Jordan	Near East	XLIV
Carbon tetrachloride	56-23-5	Industrial chemical	Latvia	Europe	XX
Carbon tetrachloride	56-23-5	Industrial chemical	Republic of Korea	Asia	XX

Chemical name	CAS number	Category	Country	Region	Published in PIC Circular
Carbon tetrachloride	56-23-5	Pesticide & Industrial chemical	Switzerland	Europe	XXI
Carbon tetrachloride	56-23-5	Pesticide	Thailand	Asia	XX
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	European Union	Europe	XXXV
Carbosulfan	55285-14-8	Pesticide	Gambia	Africa	XLI
Carbosulfan	55285-14-8	Pesticide	Mauritania	Africa	XLI
Carbosulfan	55285-14-8	Pesticide	Niger	Africa	XLI
Carbosulfan	55285-14-8	Pesticide	Senegal	Africa	XLI
Carbosulfan	55285-14-8	Pesticide	Togo	Africa	XLI
CFC (Totally halogenated)	75-69-4, 75-71-8, 76-13-1, 76-14-2, 76-15-3	Industrial chemical	Canada	North America	XII
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	Industrial chemical	Japan	Asia	XXXII
Chlordecone	143-50-0	Pesticide	Japan	Asia	XXXIII
Chlordecone	143-50-0	Pesticide	Switzerland	Europe	XX
Chlordecone	143-50-0	Pesticide	Thailand	Asia	XIV
Chlorfenapyr	122453-73-0	Pesticide	European Union	Europe	XVIII
Chlorfenvinphos	470-90-6	Pesticide	Norway	Europe	XIII
Chlormitrofen	1836-77-7	Pesticide	Japan	Asia	XX
Chloroethylene	75-01-4	Industrial chemical	Latvia	Europe	XX
Chloroform	67-66-3	Industrial chemical	Latvia	Europe	XX
Chloromethyl methyl ether	107-30-2	Industrial chemical	Canada	North America	XXVIII
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
Chlozolinate	84332-86-5	Pesticide	European Union	Europe	XVI
Chrysotile (white asbestos)	12001-29-5	Industrial chemical	Australia	Southwest Pacific	XIX
Chrysotile (white asbestos)	12001-29-5	Industrial chemical	Bulgaria	Europe	XXII
Chrysotile (white asbestos)	12001-29-5	Industrial chemical	Chile	Latin America and the Caribbean	XV
Chrysotile (white asbestos)	12001-29-5	Industrial chemical	European Union	Europe	XIII
Chrysotile (white asbestos)	12001-29-5	Industrial chemical	Japan	Asia	XXX
Chrysotile (white asbestos)	12001-29-5	Industrial chemical	Japan	Asia	XXV

Chemical name	CAS number	Category	Country	Region	Published in PIC Circular
Chrysotile (white asbestos)	12001-29-5	Industrial chemical	Latvia	Europe	XX
Chrysotile (white asbestos)	12001-29-5	Industrial chemical	South Africa	Africa	XXX
Chrysotile (white asbestos)	12001-29-5	Industrial chemical	Switzerland	Europe	XXI
Creosote	8001-58-9	Industrial chemical	Latvia	Europe	XX
Creosote oil	61789-28-4	Industrial chemical	Latvia	Europe	XX
Creosote oil, acenaphthene fraction	90640-84-9	Industrial chemical	Latvia	Europe	XX
Creosote, wood	8021-39-4	Industrial chemical	Latvia	Europe	XX
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha-isomer	319-84-6	Industrial chemical	Japan	Asia	XXXII
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha-isomer	319-84-6	Pesticide	Japan	Asia	XXXIII
Cycloheximide	66-81-9	Pesticide	Thailand	Asia	XIV
Cyhexatin	13121-70-5	Pesticide	Brazil	Latin America and the Caribbean	XXXVI
Cyhexatin	13121-70-5	Pesticide	Canada	North America	XXII
Cyhexatin	13121-70-5	Pesticide	Japan	Asia	XX
DDD	72-54-8	Pesticide	Thailand	Asia	XX
Decabromodiphenyl ether (decaBDE)	1163-19-5	Industrial chemical	Norway	Europe	XXXIX
Demephion-O	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 chemical	Japan	Asia	XX
Diazinon	333-41-5	Pesticide	European Union	Europe	XXXII
Dibromochloropropane (DBCP)	96-12-8	Pesticide	Canada	North America	XXII
Dibromochloropropane (DBCP)	96-12-8	Pesticide	Thailand	Asia	XIV
Dibromotetrafluoroethane	124-73-2	Industrial chemical	Canada	North America	XIII
Dibutyltin hydrogen borate (DBB)	75113-37-0	Industrial chemical	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 chemical	Latvia	Europe	XX
Dichloro[(dichlorophenyl)methyl]methylbenzene	76253-60-6	Industrial chemical	Switzerland	Europe	XXIII
Dichlorobenzyltoluene	81161-70-8	Industrial chemical	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	Pesticide	European Union	Europe	XXXIII
Dicofol	115-32-2	Industrial chemical	Japan	Asia	XXII
Dicofol	115-32-2	Industrial chemical	Japan	Asia	XXXII
Dicofol	115-32-2	Pesticide	Japan	Asia	XXXIII

Chemical name	CAS number	Category	Country	Region	Published in PIC Circular
Dicofol	115-32-2	Pesticide	Netherlands	Europe	XXII
Dicofol	115-32-2	Pesticide	Romania	Europe	XX
Dicofol	115-32-2	Pesticide	Switzerland	Europe	XXIV
Dicrotophos	141-66-2	Pesticide	Jordan	Near East	XVIII
Difenoconazole	119446-68-3	Pesticide	Norway	Europe	XXXII
Dimefox	115-26-4	Pesticide	Jordan	Near East	XVIII
Dimefox	115-26-4	Pesticide	Thailand	Asia	XIV
Dimethenamid	87674-68-8	Pesticide	European Union	Europe	XXVII
Diniconazole-M	83657-18-5	Pesticide	European Union	Europe	XXXIV
Dinoterb	1420-07-1	Pesticide	European Union	Europe	XIV
Dinoterb	1420-07-1	Pesticide	Switzerland	Europe	XX
Dinoterb	1420-07-1	Pesticide	Thailand	Asia	XIV
Diphenylamine	122-39-4	Pesticide	European Union	Europe	XXXIX
Distillates (coal tar), naphthalene oils	84650-04-4	Industrial chemical	Latvia	Europe	XX
Distillates (coal tar), upper	65996-91-0	Industrial chemical	Latvia	Europe	XX
Disulfoton	298-04-4	Pesticide	Thailand	Asia	XIV
Endosulfan	115-29-7**, 959-98-8, 33213-65-9	Pesticide* & Industrial chemical	Japan	Asia	XLIV
Endrin	72-20-8	Pesticide	Bulgaria	Europe	XXII
Endrin	72-20-8	Pesticide	Canada	North America	XXII
Endrin	72-20-8	Pesticide	Guyana	Latin America and the Caribbean	XXVI
Endrin	72-20-8	Pesticide & Industrial chemical	Japan	Asia	XX
Endrin	72-20-8	Pesticide	Jordan	Near East	XVIII
Endrin	72-20-8	Pesticide	Peru	Latin America and the Caribbean	XIII
Endrin	72-20-8	Pesticide & Industrial chemical	Republic of Korea	Asia	XX
Endrin	72-20-8	Pesticide	Romania	Europe	XX
Endrin	72-20-8	Pesticide	Switzerland	Europe	XX
Endrin	72-20-8	Pesticide	Uruguay	Latin America and the Caribbean	XXVIII
Epoxiconazole	106325-08-0	Pesticide	Norway	Europe	XIII
EPTC	759-94-4	Pesticide	Norway	Europe	XIII
Ethylbromoacetate	105-36-2	Industrial chemical	Latvia	Europe	XX
Extract residues (coal), low temp. coal tar alk	122384-78-5	Industrial chemical	Latvia	Europe	XX
Fenarimol	60168-88-9	Pesticide	European Union	Europe	XXXVII
Fenitrothion	122-14-5	Pesticide	European Union	Europe	XXXII

Chemical name	CAS number	Category	Country	Region	Published in PIC Circular
Fenthion	55-38-9	Pesticide	European Union	Europe	XXII
Fentin acetate	115-90-2	Pesticide	Thailand	Asia	XIV
Fentin hydroxide	76-87-9	Pesticide	European Union	Europe	XVI
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-P-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 chemical	Japan	Asia	XX
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	Industrial chemical	Japan	Asia	XLIV
Hexabromocyclododecane	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	Industrial chemical	Norway	Europe	XLIV
Hexachlorobenzene	118-74-1	Industrial chemical	Canada	North America	XXVIII
Hexachlorobenzene	118-74-1	Industrial chemical	China	Asia	XLII
Hexachlorobenzene	118-74-1	Pesticide* & Industrial chemical	Japan	Asia	XX
Hexachlorobenzene	118-74-1	Pesticide* & Industrial chemical	Panama	Latin America and the Caribbean	XIX
Hexachlorobutadiene	87-68-3	Industrial chemical	Canada	North America	XXVIII
Hexachlorobutadiene	87-68-3	Industrial chemical	Japan	Asia	XXII
Hexachloroethane	67-72-1	Industrial chemical	Latvia	Europe	XX
Hexane, 1,6-diisocyanato-, homopolymer, reaction products with alpha-fluoro-omega-2-hydroxyethyl-poly(difluoromethylene), C ₁₆ -20-branched alcohols and 1-octadecanol	N/A	Industrial chemical	Canada	North America	XLI
Hexazinon	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

Chemical name	CAS number	Category	Country	Region	Published in PIC Circular
Isopyrazam	881685-58-1	Pesticide	Norway	Europe	XXXVII
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 chemical	Jordan	Near East	XXXVI
Lead carbonate	598-63-0	Industrial chemical	Latvia	Europe	XX
Lead hydroxycarbonate	1319-46-6	Industrial chemical	Latvia	Europe	XX
Lead sulfate	15739-80-7	Industrial chemical	Latvia	Europe	XX
Lead(II)sulfate	7446-14-2	Industrial chemical	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 chemical	Sweden	Europe	XXIII
Methazole	20354-26-1	Pesticide	Australia	Southwest Pacific	XII
Methyl bromide	74-83-9	Pesticide & Industrial chemical	Malawi	Africa	XXX
Methyl bromide	74-83-9	Pesticide	Netherlands	Europe	XV
Methyl bromide	74-83-9	Pesticide & Industrial chemical	Republic of Korea	Asia	XX
Methyl bromide	74-83-9	Pesticide & Industrial chemical	Switzerland	Europe	XXI
Methyl bromoacetate	96-32-2	Industrial chemical	Latvia	Europe	XX
Methyl cellosolve	109-86-4	Industrial chemical	Canada	North America	XXVIII
Methyl parathion	298-00-0	Pesticide	Brazil	Latin America and the Caribbean	XX
Methyl parathion	298-00-0	Pesticide	Bulgaria	Europe	XXII
Methyl parathion	298-00-0	Pesticide	Côte d'Ivoire	Africa	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	European Union	Europe	XVIII
Methyl parathion	298-00-0	Pesticide	Gambia	Africa	XIX
Methyl parathion	298-00-0	Pesticide	Guyana	Latin America and the Caribbean	XXVI

Chemical name	CAS number	Category	Country	Region	Published in PIC Circular
Methyl parathion	298-00-0	Pesticide & Industrial chemical	Japan	Asia	XX
Methyl parathion	298-00-0	Pesticide	Kyrgyzstan	Near East	XIX
Methyl parathion	298-00-0	Pesticide	Nigeria	Africa	XXI
Methyl parathion	298-00-0	Pesticide	Panama	Latin America and the Caribbean	XIX
Methyl parathion	298-00-0	Pesticide	Paraguay	Latin America and the Caribbean	XXIX
Methyl parathion	298-00-0	Pesticide	Thailand	Asia	XXI
Methyl parathion	298-00-0	Pesticide	Uruguay	Latin America and the Caribbean	XXVIII
Mevinphos	26718-65-0	Pesticide	Jordan	Near East	XVIII
Mevinphos	26718-65-0	Pesticide	Thailand	Asia	XIV
MGK Repellent 11	126-15-8	Pesticide	Thailand	Asia	XX
Mirex	2385-85-5	Pesticide	Bulgaria	Europe	XXII
Mirex	2385-85-5	Industrial chemical	Canada	North America	XII
Mirex	2385-85-5	Industrial chemical	Canada	North America	XXVIII
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 & Industrial chemical	Japan	Asia	XXI
Mirex	2385-85-5	Pesticide & Industrial chemical	Switzerland	Europe	XXIII
Mirex	2385-85-5	Pesticide	Thailand	Asia	XX
Mirex	2385-85-5	Pesticide	Uruguay	Latin America and the Caribbean	XXVIII
Monomethyl dichlorodiphenyl methane	122808-61-1	Industrial chemical	Latvia	Europe	XX
N,N'-Ditolyl-p-phenylenediamine; N,N'-Dixylyl-p-phenylenediamine; N-Tolyl-N'-xylyl-p-phenylenediamine	27417-40-9, 28726-30-9, 70290-05-0	Industrial chemical	Japan	Asia	XXI
Naled	300-76-5	Pesticide	European Union	Europe	XXXIX
NCC ether	94097-88-8	Industrial chemical	Canada	North America	XIII
NCC ether	94097-88-8	Industrial chemical	Canada	North America	XXVIII
Nickel	7440-02-0	Industrial chemical	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 chemical	Canada	North America	XXVIII

Chemical name	CAS number	Category	Country	Region	Published in PIC Circular
Nonylphenol	11066-49-2, 25154-52-3, 84852-15-3, 90481-04-2	Pesticide & Industrial chemical	European Union	Europe	XXIII
Nonylphenol ethoxylate	11066-49-2, 25154-52-3, 84852-15-3, 90481-04-2	Pesticide & Industrial chemical	European Union	Europe	XXIII
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 chemical	Switzerland	Europe	XXXVI
Octylphenols and Octylphenol ethoxylates	140-66-9	Pesticide & Industrial chemical	Switzerland	Europe	XXXVI
Oxydemeton-methyl	301-12-2	Pesticide	European Union	Europe	XXX
Paraquat	4685-14-7	Pesticide	Sri Lanka	Asia	XXVIII
Paraquat	4685-14-7	Pesticide	Sweden	Europe	XXIII
Paraquat	4685-14-7	Pesticide	Togo	Africa	XLII
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	Industrial chemical	Canada	North America	XXVIII
Pentachlorobenzene	608-93-5	Industrial chemical	Japan	Asia	XXXII
Pentachlorobenzene	608-93-5	Pesticide	Japan	Asia	XXXIII
Pentachloroethane	76-01-7	Industrial chemical	Latvia	Europe	XX
Pentachlorophenol and its salts and esters	87-86-5**, 131-52-2, 27735-64-4, 3772-94-9	Pesticide* & Industrial chemical	Japan	Asia	XLIV

Chemical name	CAS number	Category	Country	Region	Published in PIC Circular
Perfluorooctanoic acid (PFOA) and its salts and esters	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 chemical	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 chemical	Japan	Asia	XXVII
Phenthoate	2597-03-7	Pesticide	Malaysia	Asia	XLIV
Phorate	298-02-2	Pesticide	Brazil	Latin America and the Caribbean	XLIV
Phorate	298-02-2	Pesticide	Canada	North America	XXVIII
Phorate	298-02-2	Pesticide	Thailand	Asia	XIV
Phosalone	2310-17-0	Pesticide	European Union	Europe	XXVII
Phosphamidon	13171-21-6	Pesticide	Brazil	Latin America and the Caribbean	XX
Phosphamidon	13171-21-6	Pesticide	Côte d'Ivoire	Africa	XX
Phosphamidon	13171-21-6	Pesticide & Industrial chemical	Japan	Asia	XX
Phosphamidon	13171-21-6	Pesticide	Panama	Latin America and the Caribbean	XIX
Phosphamidon	13171-21-6	Pesticide	Thailand	Asia	XIV
Polychlorinated naphthalenes (Naphthalene polychlorinated)	70776-03-3	Industrial chemical	Canada	North America	XXXVIII
Polychlorinated naphthalenes (Naphthalene polychlorinated)	28699-88-9, 1321-65-9, 1335-88-2, 1321-64-8, 1335-87-1, 32241-08-0, 2234-13-1	Industrial chemical	Japan	Asia	XLIV
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
Propoxycarbazone sodium	145026-81-9	Pesticide	Norway	Europe	XV

Chemical name	CAS number	Category	Country	Region	Published in PIC Circular
Propylbromoacetate	35223-80-4	Industrial chemical	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 chemical	Japan	Asia	XX
Schradan	152-16-9	Pesticide	Thailand	Asia	XIV
Short chain chlorinated paraffins [Chlorinated alkanes that have the molecular formula $C_nH_xCl(2n+2-x)$ in which $10 \leq n \leq 13$]	1002-69-3, 104948-36-9, 108171-26-2, 112-52-7, 2162-98-3, 3922-28-9, 51990-12-6, 61788-76-9, 63449-39-8, 68188-19-2, 68476-48-2, 68606-33-7, 68911-63-7, 68920-70-7, 68938-42-1, 68955-41-9, 68990-22-7, 71011-12-6, 72854-22-9, 73138-78-0, 84082-38-2, 84776-06-7, 85422-92-0, 85535-84-8, 85536-22-7, 85681-73-8, 97553-43-0, 97659-46-6	Industrial chemical	Canada	North America	XXXVIII
Short chain chlorinated paraffins (SCCP)	85535-84-8	Industrial chemical	Norway	Europe	XV
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	XXVIII

Chemical name	CAS number	Category	Country	Region	Published in PIC Circular
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 chemical	Latvia	Europe	XX
Tecnazene	117-18-0	Pesticide	European Union	Europe	XV
TEPP (Tetraethyl pyrophosphate)	107-49-3	Pesticide & Industrial chemical	Japan	Asia	XX
Terbufos	13071-79-9	Pesticide	Canada	North America	XXVIII
Tetrachlorobenzene	12408-10-5	Industrial chemical	Canada	North America	XXVIII
Tetrachlorobenzene	634-66-2	Industrial chemical	Canada	North America	XXVIII
Tetrachlorobenzene	634-90-2	Industrial chemical	Canada	North America	XXVIII
Tetrachlorobenzene	95-94-3	Industrial chemical	Canada	North America	XXVIII
Thallium acetate	563-68-8	Industrial chemical	Republic of Korea	Asia	XX
Thallium nitrate	10102-45-1	Industrial chemical	Republic of Korea	Asia	XX
Thallium sulphate	7446-18-6	Industrial chemical	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	XII
Tributyl tetradecyl phosphonium chloride	81741-28-8	Industrial chemical	Canada	North America	XIII
Tributyltin compounds	56-35-9	Industrial chemical	Republic of Korea	Asia	XX
Tributyltin oxide	56-35-9	Industrial chemical	Japan	Asia	XXI
Tributyltins	1461-22-9, 1983-10-4, 2155-70-6, 4027-18-3, 4342-30-7, 56-35-9, 67701-37-5, 688-73-3	Industrial chemical	Canada	North America	XXXVIII
Trichlorfon	52-68-6	Pesticide	Brazil	Latin America and the Caribbean	XXXIV

Chemical name	CAS number	Category	Country	Region	Published in PIC Circular
Trichlorfon	52-68-6	Pesticide	European Union	Europe	XXX
Trichlorfon	52-68-6	Pesticide	Togo	Africa	XLII
Trifluralin	1582-09-8	Pesticide	European Union	Europe	XXXVI
Tris-(1-aziridinyl)phosphine oxide	545-55-1	Industrial chemical	Latvia	Europe	XX
Tris-(1-aziridinyl)phosphine oxide	545-55-1	Industrial chemical	Switzerland	Europe	XXIII
Vinclozolin	50471-44-8	Pesticide	Jordan	Near East	XVIII
Vinclozolin	50471-44-8	Pesticide	Norway	Europe	XIII
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.

Notifications of final regulatory action for chemicals not included in Annex III**PART B****TABULAR SUMMARY OF NOTIFICATIONS OF FINAL REGULATORY ACTION FOR BANNED OR SEVERELY RESTRICTED CHEMICALS NOT INCLUDED IN ANNEX III AND VERIFIED TO NOT CONTAIN THE INFORMATION REQUIREMENTS OF ANNEX I TO THE CONVENTION**

The Secretariat has verified that the following notifications do not contain the information requirements of Annex I to the Convention.

Chemical name	CAS	Category	Country	Region	Published in 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-trichlorophenoxy)ethyl 2,2-dichloropropanoate	136-25-4	Pesticide	Saudi Arabia	Near East	XXVII
2,4,5-TP (Silvex; Fenoprop)	93-72-1	Pesticide	Saudi Arabia	Near East	XXXII
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	Oman	Near East	XXXIX
Amitrole	61-82-5	Pesticide	Saudi Arabia	Near East	XXVII
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	Oman	Near East	XXXIX
Benomyl	17804-35-2	Pesticide	Saudi Arabia	Near East	XXXVIII
Bifenthrin	82657-04-3	Pesticide	Oman	Near East	XXXIX
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
Carbofuran	1563-66-2	Pesticide	Jordan	Near East	XVIII
Carbofuran	1563-66-2	Pesticide	Oman	Near East	XXXIX
Carbofuran	1563-66-2	Pesticide	Saudi Arabia	Near East	XXXVIII
Chloranil	118-75-2	Pesticide	Mexico	Latin America and the Caribbean	XXVIII
Chloranil	118-75-2	Pesticide	Saudi Arabia	Near East	XXXII

Chemical name	CAS	Category	Country	Region	Published in PIC Circular
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 (white asbestos)	12001-29-5	Industrial chemical	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
Dibromochloropropane (DBCP)	96-12-8	Pesticide	Mexico	Latin America and the Caribbean	XXVIII
Dibromochloropropane (DBCP)	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
Endrin	72-20-8	Pesticide	Mexico	Latin America and the Caribbean	XXVIII
Endrin	72-20-8	Pesticide	Nepal	Asia	XLII
Endrin	72-20-8	Pesticide	Saudi Arabia	Near East	XXVII
EPN	2104-64-5	Pesticide	Saudi Arabia	Near East	XXVII

Chemical name	CAS	Category	Country	Region	Published in PIC Circular
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	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	Oman	Near East	XXXIX
Methiocarb	2032-65-7	Pesticide	Saudi Arabia	Near East	XXXVIII
Methomyl	16752-77-5	Pesticide	Saudi Arabia	Near East	XXXVIII
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
Mevinphos	7786-34-7	Pesticide	Oman	Near East	XXXIX
Mevinphos	7786-34-7	Pesticide	Saudi Arabia	Near East	XXVII
Mirex	2385-85-5	Pesticide	El Salvador	Latin America and the Caribbean	XXVII
Mirex	2385-85-5	Pesticide	Mexico	Latin America and the Caribbean	XXVIII
Mirex	2385-85-5	Pesticide	Nepal	Asia	XLII

Chemical name	CAS	Category	Country	Region	Published in PIC Circular
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
Phosphonic diamide, p-(5-amino-3-phenyl-1H-1,2,4-triazol-1-yl)-N,N,N',N'-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
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
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**

Appendix VI has been developed 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 provides a reference to the information submitted by Parties to the Secretariat in line with decisions RC-3/3, RC-4/4 and RC-6/8 of the Conference of the Parties and paragraph 1 of Article 14 of the Convention.

This appendix consists of two parts:

Part A provides a reference to the information that has been provided by Parties to the Secretariat on national decisions concerning the management of chrysotile asbestos 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. The table contains a summary of the information submitted by Parties for these chemicals, including the chemical name, Party, PIC Circular when the information was first circulated and a web link to the Rotterdam Convention website where the detailed information may be downloaded.

Part B is a list of decisions on the future import of chrysotile asbestos 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 that have been submitted by Parties. These import decisions are circulated for information only and do not constitute part of the legally binding PIC procedure.

On the Rotterdam Convention website, in the section “Chemicals recommended for listing”, further information on these chemicals can be found, including the notifications of final regulatory action and supporting documentation available to the Chemical Review Committee and the draft decision guidance documents.

PART A**INFORMATION PROVIDED BY PARTIES ON NATIONAL DECISIONS CONCERNING THE MANAGEMENT OF CHRYSOTILE ASBESTOS 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****CHRYSOTILE ASBESTOS**

Chrysotile asbestos (CAS number: 12001-29-5)		
PARTY	PIC CIRCULAR	LINK
European Union	PIC Circular XXVII, June 2008	http://www.pic.int/TheConvention/Chemicals/RecommendedtoCOP/Chrysotileasbestos/tabid/1186/language/en-US/Default.aspx
Switzerland	PIC Circular XXVI, December 2007	http://www.pic.int/TheConvention/Chemicals/RecommendedtoCOP/Chrysotileasbestos/tabid/1186/language/en-US/Default.aspx

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

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		
PARTY	PIC CIRCULAR	LINK
-	-	-

PART B

**INFORMATION PROVIDED BY PARTIES ON IMPORT DECISIONS FOR
CHRYSTOLE ASBESTOS 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**

CHRYSTOLE ASBESTOS

Chrysotile asbestos (CAS number: 12001-29-5)		
PARTY	IMPORT DECISION	DATE RECEIVED
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>	06-10-2009

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

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		
PARTY	IMPORT DECISION	DATE RECEIVED
Qatar	<p><u>No consent to import</u></p> <p><u>Administrative measure:</u> (*) 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>	02-11-2015