

Form 1

POPs Pesticides, Hexachlorobenzene (HCB) and PCBs

**Please send the completed form to
UNEP Chemicals**

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Country (or region) SLOVENIA	Contact person Vesna Ternifi
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► IMPORTANT: See instructions before filling the form ◀

SECTION 1. POPs IDENTITY

1.1	Substance name (<i>Check one of the following substances</i>)	
	<input type="checkbox"/> Aldrin <input type="checkbox"/> Dieldrin <input type="checkbox"/> DDT <input type="checkbox"/> Endrin <input type="checkbox"/> Chlordane	<input type="checkbox"/> Hexachlorobenzene <input type="checkbox"/> Mirex <input type="checkbox"/> Toxaphene <input type="checkbox"/> Heptachlor <input checked="" type="checkbox"/> PCBs
1.2	Generic names for product, mixture or formulation used	Percentage of active ingredient in product, mixture or formulation
	1 Clophen A-50	NA
	2. Clophen A-30	NA
	3. Pyralen 1500	NA
<u>Comments:</u> named formulations were used from 1962 to 1.1.1985		
<u>Data Source:</u> Iskra semic, Condenser and transformer faactory		

SECTION 2. PRODUCTION, IMPORT AND EXPORT DATA

		Quantity per year (active ingredient)	Year	Specification
2.1	1. Produced for <i>use</i>	<input type="checkbox"/>		
	2. Produced as <i>by products</i>	<input type="checkbox"/>		
	3. Produced as <i>impurity</i>	<input type="checkbox"/>		
	4. <i>Other</i>	<input type="checkbox"/>		
Facility locations:				
<u>Comments:</u>				
<u>Data Source:</u>				

			Quantity per year (active ingredient)	Year	Specification
2.2	1. Imported for <i>use</i>	<input checked="" type="checkbox"/>	NA	NA	From 1962 to 1985: 3,688,280 kg
	2. Imported as <i>impurity</i>	<input type="checkbox"/>	NA		
	3. Imported for <i>destruction</i>	<input type="checkbox"/>	NA		
	4. <i>Other</i>	<input type="checkbox"/>			

Origins: Bayer (Germany) and Prodolec (France)

Comments: PCB was used in manufacture of transformers and condensers until 1.1.1985.

Data Source: Iskra Semic Factory

			Quantity per year (active ingredient)	Year	Specification
2.3	1. Exported for <i>use</i>	<input type="checkbox"/>			
	2. Exported as <i>impurity</i>	<input type="checkbox"/>			
	3. Exported for <i>destruction</i>	<input checked="" type="checkbox"/>	231 629 kg	NA	NA
	4. <i>Other</i>	<input type="checkbox"/>			

Destinations: NA

Comments:

Data Source:

SECTION 3. LOCAL USE

Use type <i>(see instructions)</i>	Quantity used per year	Quantity reported as: <i>(Check one only)</i>	Year	Specific legal restriction to use			
				Yes	No	Description	Year
3.1 impregnator	NA	Active ingredient <input type="checkbox"/> Formulation <input checked="" type="checkbox"/> Mixture <input type="checkbox"/>	1985	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Condensers and transformers	
3.2		Active ingredient <input type="checkbox"/> Formulation <input type="checkbox"/> Mixture <input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
3.3		Active ingredient <input type="checkbox"/> Formulation <input type="checkbox"/> Mixture <input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
3.4		Active ingredient <input type="checkbox"/> Formulation <input type="checkbox"/> Mixture <input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		

Comments:

Data Source:

SECTION 4. ALTERNATIVES

Use type <i>(see instructions)</i>	Availability and use	Chemical alternatives name/short description	Non-chemical alternative name/short description	Reasons for not selecting alternatives
4.1 impregnator	Available <input checked="" type="checkbox"/> Selected often <input type="checkbox"/> Selected rarely <input type="checkbox"/> Never selected <input type="checkbox"/>	Polybutenes and mixture of benzyltoluene 75% and dibenzyltoluene 25%		Cost <input type="checkbox"/> Effectiveness <input type="checkbox"/> Other <input checked="" type="checkbox"/>
4.2	Available <input type="checkbox"/> Selected often <input type="checkbox"/> Selected rarely <input type="checkbox"/> Never selected <input type="checkbox"/>			Cost <input type="checkbox"/> Effectiveness <input type="checkbox"/> Other <input type="checkbox"/>
4.3	Available <input type="checkbox"/> Selected often <input type="checkbox"/> Selected rarely <input type="checkbox"/> Never selected <input type="checkbox"/>			Cost <input type="checkbox"/> Effectiveness <input type="checkbox"/> Other <input type="checkbox"/>
4.4	Available <input type="checkbox"/> Selected often <input type="checkbox"/> Selected rarely <input type="checkbox"/> Never selected <input type="checkbox"/>			Cost <input type="checkbox"/> Effectiveness <input type="checkbox"/> Other <input type="checkbox"/>

Comments:

Data Source:

SECTION 5. STOCKPILE IDENTIFICATION

	Is the POP stockpiled?	Quantity	Stockpile Location(s)
5.1	As a Product Yes <i>(if Yes, please specify)</i> Active ingredient <input type="checkbox"/> Formulation <input type="checkbox"/> Mixture <input type="checkbox"/> Other <input type="checkbox"/> No <input checked="" type="checkbox"/>	_____ _____ _____ _____	
5.2	As a Recyclable Yes <i>(if Yes, please specify)</i> Active ingredient <input type="checkbox"/> Formulation <input type="checkbox"/> Mixture <input type="checkbox"/> Other <input type="checkbox"/> No <input checked="" type="checkbox"/>	_____ _____ _____ _____	
5.3	As a Waste Yes <i>(if Yes, please specify)</i> Active ingredient <input type="checkbox"/> Formulation <input checked="" type="checkbox"/> Mixture <input type="checkbox"/> Other <input checked="" type="checkbox"/> No <input type="checkbox"/>	The whole waste is 67 267 kg NA _____ _____ NA _____ _____	The polluted soil and condensers are dumped in Iskra Semic.

Comments:

Other means: OCB waste and broken down condensers

Data Source: Iskra Semic

SECTION 6. RELEASE TO ENVIRONMENTAL COMPARTMENTS

	Is the POP Released to environment?	Origin of Release	Quantity	Location
6.1	Air Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Agricultural pest control <input type="checkbox"/> Non-Agricultural pest control <input type="checkbox"/> Industrial activity <input type="checkbox"/> Waste disposal <input type="checkbox"/> Other <input type="checkbox"/>	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
6.2	Water Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural pest control <input type="checkbox"/> Non-Agricultural pest control <input type="checkbox"/> Industrial activity <input checked="" type="checkbox"/> Waste disposal <input type="checkbox"/> Other <input type="checkbox"/>	_____ _____ _NA_____ _____ _____	_____ _____ Rivers Krupa, Lahinja, Kolpa. _____ _____
6.3	Soil Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural pest control <input type="checkbox"/> Non-Agricultural pest control <input type="checkbox"/> Industrial activity <input type="checkbox"/> Waste disposal <input checked="" type="checkbox"/> Other <input type="checkbox"/>	_____ _____ _____ _NA_____ _____	_____ _____ _____ _Iskra Semic factory_____ _____

Comments:

Data Source:

SECTION 7. POPULATION EXPOSURE

	Are humans exposed to the POP	Exposure type	Total estimated levels	Comments:
7.1	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Occupational <input type="checkbox"/> Consumer <input type="checkbox"/> Residential <input type="checkbox"/> Accident/Poisoning <input type="checkbox"/> Other (please specify) <input type="checkbox"/>	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____

Data Source: Institute of Jozef Stefan, Ljubjana and Institute of public Health, Novo Mesto.
We have monitored human for PCB in 1984.

SECTION 8. RELEASE AND EXPOSURE MONITORING

	Monitoring type	Short description (add separate page if needed)
8.1	Ambient air Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
8.2	Ground water Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
8.3	Surface water Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	We monitor water in the Krupa, Lahinja and Kolpa rivers for PCB twice a year.
8.4	Point air Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

8.5	Point water Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
8.6	Soil Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	We monitor sediment in the Krupa, Lahinja and Kolpa riveers for PCB twice a year.
8.7	Ecosystem Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
8.8	Human Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Monitoring of human for PCB was made once in 1984.
8.9	Agricultural commodity Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
8.10	Food products Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	NA

Comments:

Data Source: Iskra Semic factory, Environmental Protection Institute Maribor

SECTION 9. REGULATORY ACTIONS TAKEN TO CONTROL THE USE OF THE POP

Action type to control the manufacture, importation, distribution in commerce, use or disposal	Short description (add separate page if needed)	Reference
9.1 Public health standards or regulations	Regulations on the safety of drinking water (Official gazette of the Republic of Slovenia, n°46-97). Act on Poisons (Official Gazette of the Socialistic Federal republic of Yugoslavia, n°13/91)	
9.2 Occupational standards or regulations		
9.3 Environmental standards or regulations	Decree on the input of toxic substances and plant nutrients into the soil (Official gazette of the Republic of Slovenia, n°68/96)	
9.4 Guidance Document	EU Directives 76/769/EEC, 82/882/EEC, 89/677/EEC	
9.5 Voluntary programme	Research Project: Research on PCB in the Krupa river and other projects.	
9.6 Other (e.g., Governmental order, international agreements)	NA	
9.7 No action		

Comments:

Data Source:

SECTION 10. REPORT ON CASE STUDIES ON POPs-RELATED PROBLEMS IN YOUR COUNTRY (Please provide a copy of the full report if available)		
Short description (add separate page if needed)		
10.1	Site location	Semic is located in the South-eastern part of Slovenia
10.2	Human activities in which the substance is used or generated	Impregnation of condensers and transformers up to 1.1.1985
10.3	Pathways and distribution of POP	Research projects were made
10.4	Environmental Impacts	Research project: research on PCB in the Krupa river and other projects
10.5	Human health impact	Research project
10.6	Economic value of the activities at the national level, (poverty alleviation, health improvement)	NA
10.7	Conclusions	PCB illustration: our internal literature is sufficient
<u>Comments:</u>		
<u>Data Source:</u>		
SECTION 11. DO YOU HAVE A NATIONAL ACTION PLAN TO CONTROL THE USE AND RELEASES OF THIS POP?		
No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	Planned <input type="checkbox"/> Implemented <input type="checkbox"/>
Please provide a short description (add separate page if needed)		
<u>Comments:</u>		
<u>Data Source:</u>		

*NATIONAL/REGIONAL ACTION PLANS are programmes designed to control, reduce or eliminate the releases of POPs. They may include regulatory actions and other actions aiming at the phasing out of one or more POPs and/or promoting the use of alternative substances or techniques.