



FORM
FOR NOTIFICATION OF FINAL REGULATORY ACTION
TO BAN OR SEVERELY RESTRICT A CHEMICAL

IMPORTANT: See instructions before filling in the form

COUNTRY: JAPAN

PART I: PROPERTIES, IDENTIFICATION AND USES

1. IDENTITY OF CHEMICAL		
1.1	Common name	Endrin
1.2	Chemical name according to an internationally recognized nomenclature (e.g. IUPAC), where such nomenclature exists	1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethanonaphthalene
1.3	Trade names and names of preparations	Compound 269, Endrex, Hexadrin, Isodrin Epoxide, Mendrin, Nendrin
1.4	Code numbers	
1.4.1	CAS number	72-20-8
1.4.2	Harmonized System customs code	2910.90
1.4.3	Other numbers (specify the numbering system)	

1.5	Indication regarding previous notification on this chemical, if any
1.5.1	<input type="checkbox"/> This is a first time notification of final regulatory action on this chemical.
1.5.2	<input type="checkbox"/> This is a modification of a previous notification of final regulatory action on this chemical. The sections modified are: _____
	<input checked="" type="checkbox"/> This notification replaces all previously submitted notifications on this chemical.
	Date of issue of the previous notification: <u>September 24, 1999</u>

PLEASE RETURN THE COMPLETED FORM TO:

Interim Secretariat for the Rotterdam Convention
Plant Protection Service
Plant Production and Protection Division, FAO
Viale delle Terme di Caracalla
00100 Rome, Italy

Tel: (+39 06) 5705 3441
Fax: (+39 06) 5705 6347
E-mail: pic@fao.org

OR

Interim Secretariat for the Rotterdam Convention
UNEP Chemicals

11-13, Chemin des Anémones
CH - 1219 Châtelaine, Geneva, Switzerland

Tel: (+41 22) 917 8183
Fax: (+41 22) 797 3460
E-mail: pic@unep.ch

1.6 Information on hazard classification where the chemical is subject to classification requirements	
International classification systems	Hazard class
IARC	Group 3
WHO/recommended classification of pesticides by hazard	O(obsolete)
UN Recommendations on the Transport of Dangerous Goods	UN Number 2761,2762,2995,2996; Class 6.1, 3
Other classification systems	Hazard class

1.7 Use or uses of the chemical	
1.7.1	<input checked="" type="checkbox"/> Pesticide Describe the uses of the chemical as a pesticide in your country: Agricultural insecticides until 1975.
1.7.2	<input type="checkbox"/> Industrial Describe the industrial uses of the chemical in your country:

1.8	Properties
1.8.1	Description of physico-chemical properties of the chemical
	<p>Mol Formula: C12H8Cl6O</p> <p>Mol Weight : 380.91</p> <p>Melting Pt : 226-230 deg C</p> <p>Boiling Pt :</p> <p>Water Solubility: Value : 0.25 mg/L Temp : 25 deg C Type : EXP Ref : BIGGAR,JW & RIGGS,RI (1974)</p> <p>Log P (octanol-water): Value : 5.20 Type : EXP Ref : DEBRUIJN,J ET AL. (1989)</p> <p>Vapor Pressure: Value : 3E-006 mm Hg Temp : 20 deg C Type : EXP Ref : NASH,RG (1983A)</p> <p>pKa Dissociation Constant: Value : n/a Temp : n/a Type : n/a Ref : n/a</p> <p>Henry's Law Constant: Value : 6.36E-006 atm-m3/mole Temp : 25 deg C Type : n/a EXP Ref : ALTSCHUH,J ET AL. (1999)</p> <p>Atmospheric OH Rate Constant: Value : 9.2E-012 cm3/molecule-sec Temp : 25 deg C Type : EST Ref : MEYLAN,WM & HOWARD,PH (1993)</p> <p>Source; Syracuse Research Corporation (SRC) http://esc.syrres.com/interkow/webprop.exe?CAS=57-74-9&submit=Submit+CAS</p>

1.8.2	Description of toxicological properties of the chemical (RTECS) LDL0 Oral: 171mg/kg (Man) LDL0 Oral: 234mg/kg (Woman) LDL0 Oral: 5mg/kg (Cat) LDL0 Oral: 2mg/kg (Chicken) LD50 Oral: 3mg/kg (Rat) LD50 Oral: 1370ug/kg (Mouse) LD50 Skin: 12mg/kg (Rat) LD50 Skin: 60mg/kg (Rabbit) LD50 Intraperitoneal: 400ug/kg (Mouse) LD50 Intravenous: 2300ug/kg (Mouse) Acute toxicity <table border="1"> <thead> <tr> <th>Animal</th><th>Route</th><th>LD₅₀ mg/kg body-weight</th><th>References</th></tr> </thead> <tbody> <tr> <td>Adult rat (female)</td><td>Oral</td><td>7.3</td><td>Treon et al., 1955</td></tr> <tr> <td>Young rat (female)</td><td>Oral</td><td>16.8</td><td>Treon et al., 1955</td></tr> <tr> <td>Adult rat (male)</td><td>Oral</td><td>40-43.4</td><td>Speck & Maaske, 1958 Treon et al., 1955</td></tr> <tr> <td>Young rat (male)</td><td>Oral</td><td>28.8</td><td>Treon et al., 1955</td></tr> <tr> <td>Rabbit (female)</td><td>Oral</td><td>7-10</td><td>Treon et al., 1955</td></tr> <tr> <td>Guinea-pig</td><td>Oral</td><td>approx. 16-36</td><td>Treon et al., 1955</td></tr> <tr> <td>Monkey</td><td>Oral</td><td>approx. 3</td><td>Treon et al., 1955</td></tr> </tbody> </table> Reference: IPCS INCHEM JMPR-Monographs & Evaluations http://www.inchem.org/documents/jmpr/jmpmono/v065pr24.htm	Animal	Route	LD ₅₀ mg/kg body-weight	References	Adult rat (female)	Oral	7.3	Treon et al., 1955	Young rat (female)	Oral	16.8	Treon et al., 1955	Adult rat (male)	Oral	40-43.4	Speck & Maaske, 1958 Treon et al., 1955	Young rat (male)	Oral	28.8	Treon et al., 1955	Rabbit (female)	Oral	7-10	Treon et al., 1955	Guinea-pig	Oral	approx. 16-36	Treon et al., 1955	Monkey	Oral	approx. 3	Treon et al., 1955
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1.8.3	Description of ecotoxicological properties of the chemical 																																

PART II: FINAL REGULATORY ACTION

2.	FINAL REGULATORY ACTION
2.1	The chemical is: <input checked="" type="checkbox"/> banned OR <input type="checkbox"/> severely restricted
2.2	Information specific to the final regulatory action
2.2.1	Summary of the final regulatory action Ban on manufacture, import, sale and use.

2.2.2	Reference to the regulatory document	
	<ul style="list-style-type: none"> Law Concerning the Evaluation of Chemical Substances and Regulation of their Manufacture, etc. (abbrev. the Chemical Substances Control Law) and its Enforcement Order Agricultural Chemicals Regulation Law and Ministerial ordinance of Ministry of Agriculture, Forestry and Fisheries, Ministerial Order of March 5, 2003. 	
2.2.3	Date of entry into force of the final regulatory action	
	<ul style="list-style-type: none"> Law Concerning the Evaluation of Chemical Substances and Regulation of their Manufacture, etc.: October 2, 1981 Ministerial ordinance of Ministry of Agriculture, Forestry and Fisheries: March 10, 2003. 	

2.3	Was the final regulatory action based on a risk or hazard evaluation?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	If yes, give information on such evaluation		
	<p>The government of Japan anticipates that persistent and highly bio-accumulative chemical substances with long-term toxicity (e.g. PCBs) may cause irreversible environmental pollution and have adverse effects on human health or environment.</p> <p>In order to prevent environmental pollution, the Chemical Substances Control Law stipulates that hazardous properties of chemicals should be checked based on the existing knowledge or by the tests which are consistent with the methods of the OECD Test Guidelines, conducted by the OECD GLP facilities.</p> <p>If persistent and highly bio-accumulative properties with long-term toxicity are detected from chemical substances, they are classified as Class I Specified Chemical Substances and are subject to the final regulatory action (ban on manufacture, import, and use).</p>		
	Reference to the relevant documentation		
	<p>BIODEGRADATION AND BIO ACCUMULATION DATA OF EXISTING CHEMICALS (by The Chemicals Evaluation and Research Institute, Japan: CERJ) http://qsar.cerij.or.jp/cgi-bin/DEGACC/result_head.cgi?STRID=00334&LANG=ENG</p>		

2.4	Reasons for the final regulatory action		
2.4.1	Is the reason for the final regulatory action relevant to the human health?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	If yes, give summary of the known hazards and risks presented by the chemical to human health, including the health of consumers and workers		
	<p>It is based on the result that existing toxic data were evaluated synthetically.</p>		
	Reference to the relevant documentation		
	<p>Internal documents at the time of the examination.</p>		
	Expected effect of the final regulatory action		
	<p>Should result in reduced human exposure to this substance as its use is phased out.</p>		

2.4.2	Is the reason for the final regulatory action relevant to the environment?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	If yes, give summary of the known hazards and risks to the environment	
	Reference to the relevant documentation	
	Expected effect of the final regulatory action	

2.5 Category or categories where the final regulatory action has been taken		
2.5.1	Final regulatory action has been taken for the chemical category	<input checked="" type="checkbox"/> Industrial
	Use or uses prohibited by the final regulatory action	
	All uses	
	Use or uses that remain allowed	
		n/a

2.5.2	Final regulatory action has been taken for the chemical category	<input checked="" type="checkbox"/> Pesticide
	Formulation(s) and use or uses prohibited by the final regulatory action	
	All uses	
	Formulation(s) and use or uses that remain allowed	
		n/a

2.5.3 Estimated quantity of the chemical produced, imported, exported and used, where available.		
	Quantity per year (MT)	Year
Produced	69t (Total)	1971-1974 As Agricultural Chemicals
Imported	n/a	
Exported	n/a	
Used	1,383t (Total)	1959-1972

2.6 Indication, to the extent possible, of the likely relevance of the final regulatory action to other states and regions	

2.7	Other relevant information that may cover:
2.7.1	Assessment of socio-economic effects of the final regulatory action
2.7.2	Information on alternatives and their relative risks
2.7.3	Relevant additional information

PART III : GOVERNMENT AUTHORITIES

Ministry/Department and authority responsible for issuing/enforcing the final regulatory action	
Institution	Ministry of Economy, Trade and Industry (METI) Ministry of the Environment (MOE) Ministry of Agriculture, Forestry and Fisheries (MAFF) Ministry of Health, Labour and Welfare (MHLW)
Address	METI: 1-3-1 Kasumigaseki, Chiyoda-ku, Tokyo 100-8901, Japan MOE: 1-2-2 Kasumigaseki, Chiyoda-ku, Tokyo 100-8975, Japan MAFF: 1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo 100-8950, Japan MHLW: 1-2-2 Kasumigaseki, Chiyoda-ku, Tokyo 100-8901, Japan
Telephone	METI: +81-3-3501-0080 MOE: +81-3-5521-8253 MAFF: +81-3-3501-3965 MHLW: +81-3-3595-2298
Telefax	METI: +81-3-3580-6347 MOE: +81-3-3581-3370 MAFF: +81-3-3501-3774 MHLW: +81-3-3593-8913
E-mail address	
Designated National Authority	
Institution	Global Environment Division Ministry of Foreign Affairs
Address	2-2-1 Kasumigaseki, Chiyoda-ku, Tokyo 100-8919, Japan
Name of person in charge	Mr. Koichi Ito
Position of person in charge	Director
Telephone	+81-3-5501-8245
Telefax	+81-3-5501-8244
E-mail address	koichi.ito@mofa.go.jp

Date, signature of DNA and official seal: 01.09.2004. 伊藤 康一



