



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

IMPORTANT: See instructions before filling in the form

COUNTRY: LATVIA

**PART I: PROPERTIES, IDENTIFICATION AND USES**

1. IDENTITY OF CHEMICAL		
1.1	Common name	Cadmium and its compounds
1.2	Chemical name according to an internationally recognized nomenclature (e.g. IUPAC), where such nomenclature exists	Cadmium and its compounds
1.3	Trade names and names of preparations	Cadmium and its compounds
1.4	Code numbers	
1.4.1	CAS number	7440-43-9
1.4.2	Harmonized System customs code	8107 10
1.4.3	Other numbers (specify the numbering system)	EC 231-152-8 UN 2570

1.5 Indication regarding previous notification on this chemical, if any	
1.5.1	<input checked="" 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 type="checkbox"/> This notification replaces all previously submitted notifications on this chemical.
Date of issue of the previous notification: _____	

**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

OR

Interim Secretariat for the Rotterdam Convention  
UNEP Chemicals

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

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

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
UN Classification	UN Hazard Class: 6.1
	UN Pack group: III
Other classification systems	Hazard class
EU Classification	T; N
	R: 49-23-22-50-53
	S: 22-53

1.7 Use or uses of the chemical	
1.7.1	<p>⊖ Pesticide</p> <p>Describe the uses of the chemical as a pesticide in your country:</p>
1.7.2	<p>X Industrial</p> <p>Describe the industrial uses of the chemical in your country:</p>

1.8 Properties	
1.8.1	<p>Description of physico-chemical properties of the chemical</p> <p>Boiling point 765°C</p> <p>Melting point 321°C</p> <p>Vapour pressure 0.00000000414 (25°C) kPa</p> <p>Solubility in water 122800 mg/l</p>

1.8.2	<p>Description of toxicological properties of the chemical</p> <p>LD<sub>50</sub> Oral rat: 225 mg/kg body weight</p> <p>LC<sub>50</sub> Inhalation rat 4h: 8 mg/l</p> <p>Radioactive nuclides</p> <p>Class 2 high radiotoxicity: Cd-109, Cd-115m</p> <p>Class 3 moderate radiotoxicity: Cd-115, Cd-117</p> <p>Class 4 low radiotoxicity: Cd-104, Cd-107, Cd-113, Cd-117m</p> <p><b>EFFECTS OF SHORT-TERM EXPOSURE:</b></p> <p>The substance irritates the eyes and the respiratory tract. Inhalation of fume may cause lung oedema. Inhalation of fume may cause metal fever. The effects may be delayed. Medical observation is indicated.</p> <p><b>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:</b></p> <p>Lungs may be affected by repeated or prolonged exposure to dust particles. The substance may have effects on the kidneys, resulting in proteinuria and kidney dysfunction. This substance is probably carcinogenic to humans.</p>
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<b>1.8.3</b>	<b>Description of ecotoxicological properties of the chemical</b>
	LC <sub>50</sub> Fish 96h: 0,007 mg/l Species: Oncorhynchus mykiss EC <sub>50</sub> Daphnia 48h: 0,0007 mg/l IC <sub>50</sub> Algae 72h: 0,009 mg/l  Bioaccumulation BCF: 28

**PART II: FINAL REGULATORY ACTION**

<b>2.</b>	<b>FINAL REGULATORY ACTION</b>		
<b>2.1</b>	<b>The chemical is:</b>	<input type="radio"/> banned	<input type="radio"/> OR <input checked="" type="radio"/> severely restricted
<b>2.2</b>	<b>Information specific to the final regulatory action</b>		
<b>2.2.1</b>	<b>Summary of the final regulatory action</b>		
	Shall not be used to give colour to finished articles manufactured from the substances and preparations listed below. Certain exceptions apply.		
<b>2.2.2</b>	<b>Reference to the regulatory document</b>		
	25 April 2000 Regulation of the Cabinet of Ministers the Republic of Latvia No.158 "Regulatory on use and marketing restrictions and bans for hazardous chemical substances and hazardous chemical preparations".		
<b>2.2.3</b>	<b>Date of entry into force of the final regulatory action</b>		
	1 January 2001		

<b>2.3</b>	<b>Was the final regulatory action based on a risk or hazard evaluation?</b>	<input checked="" type="radio"/> Yes	<input type="radio"/> No
	<b>If yes, give information on such evaluation</b>		
	Based on intrinsic properties of the chemical substance.		
	<b>Reference to the relevant documentation</b>		
	EU bans and restrictions Directive 76/769/EEC.		

<b>2.4</b>	<b>Reasons for the final regulatory action</b>		
<b>2.4.1</b>	<b>Is the reason for the final regulatory action relevant to the human health?</b>	<input checked="" type="radio"/> Yes	<input type="radio"/> No
	<b>If yes, give summary of the known hazards and risks presented by the chemical to human health, including the health of consumers and workers</b>		
	The compound is accumulated in the body in the liver and kidneys and it is excreted very slowly. Cadmium containing dust or fumes are irritating to the respiratory system when inhaled. The symptoms may appear some time after exposure and can result in permanent lung damage, possibly also death due to oedema of the lungs. After ingestion the most prominent consequences are irritation in the gastrointestinal tract with pains, diarrhoea, nausea and stomach cramps. Death may occur the next 24 hours due to shock, or after a couple of weeks due to various subsequent effects. At constant		

	<p>exposure to small amounts of cadmium, the kidneys are the most vulnerable organs. Inhalation of high doses during short periods of time (0,5 mg/m<sup>3</sup> for 8h) or low doses for long periods of time (14 µgram/m<sup>3</sup> during 35 years of work) may give lung damage. In the human body cadmium is transported by a protein, called metallothionein, to the kidneys where it is accumulated and leads to injuries. After exposure to 5 µgram cadmium fumes per day during a whole working life, a few percent of the exposed persons may suffer from slight kidney damage. This compound has caused birth defects in two different animal species.</p>
	<p><b>Reference to the relevant documentation</b></p>
	<p><b>Expected effect of the final regulatory action</b></p>

<b>2.4.2</b>	<b>Is the reason for the final regulatory action relevant to the environment?</b>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	<b>If yes, give summary of the known hazards and risks to the environment</b>		
	Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.		
	<b>Reference to the relevant documentation</b>		
	<b>Expected effect of the final regulatory action</b>		

<b>2.5</b>	<b>Category or categories where the final regulatory action has been taken</b>		
<b>2.5.1</b>	<b>Final regulatory action has been taken for the chemical category</b>	<input checked="" type="checkbox"/> Industrial	
	<b>Use or uses prohibited by the final regulatory action</b>		
	<p>1. Shall not be used to give colour to finished articles manufactured from the substances and preparations listed below:</p> <p>(a) – polyvinyl chloride (PVC) [3904 10] [3904 21] [3904 22]          – polyurethane (PUR) [3909 50]          – low-density polyethylene (ld PE), with the exception of low-density polyethylene used for the production of coloured masterbatch [3901 10]          – cellulose acetate (CA) [3912 11] [3912 12]          – cellulose acetate butyrate (CAB) [3912 11] [3912 12]          – epoxy resins [3907 30]          – melamine — formaldehyde (MF) resins [3909 20]          – urea — formaldehyde (UF) resins [3909 10]          – unsaturated polyesters (UP) [3907 91]          – polyethylene terephthalate (PET) [3907 60]          – polybutylene terephthalate (PBT)          – transparent/general-purpose polystyrene [3903 11] [3903 19]          – acrylonitrile methylmethacrylate (AMMA)          – cross-linked polyethylene (VPE)          – high-impact polystyrene          – polypropylene (PP) [3902 10]          (b) paints [3208] [3209].</p> <p>However, if the paints have a high zinc content, their residual concentration of cadmium shall be as low as possible and shall at all events not exceed 0,1 % by mass.</p>		

In any case, whatever their use or intended final purpose, finished articles or components of articles manufactured from the substances and preparations listed above coloured with cadmium shall not be placed on the market if their cadmium content (expressed as Cd metal) exceeds 0,01 % by mass of the plastic material.

2. However, paragraph 1 does not apply to articles to be coloured for safety reasons.

3. Shall not be used to stabilize the finished articles listed below manufactured from polymers or copolymers of vinyl chloride:

- packaging materials (bags, containers, bottles, lids) [3923 29 10] [3920 41] [3920 42]
- office or school supplies [3926 10]
- fittings for furniture, coachwork or the like [3926 30]
- articles of apparel and clothing accessories (including gloves) [3926 20]
- floor and wall coverings [3918 10]
- impregnated, coated, covered or laminated textile fabrics [5903 10]
- imitation leather [4202]
- gramophone records [8524 10]
- tubes and pipes and their fittings [3917 23]
- swing doors
- vehicles for road transport (interior, exterior, underbody)
- coating of steel sheet used in construction or in industry
- insulation for electrical wiring.

In any case, whatever their use or intended final purpose, the placing on the market of the above finished articles or components of articles manufactured from polymers or copolymers of vinyl chloride, stabilized by substances containing cadmium shall be prohibited, if their cadmium content (expressed as Cd metal) exceeds 0,01 % by mass of the polymer. These provisions enter into force on 30 June 1994.

4. However, paragraph 3 does not apply to finished articles using cadmium-based stabilizers for safety reasons.

5. «Cadmium plating» means any deposit or coating of metallic cadmium on a metallic surface.

Shall not be used for cadmium plating metallic articles or components of the articles used in the sectors/applications listed below:

(a) equipment and machinery for:

- food production [8210] [8417 20] [8419 81] [8421 11] [8421 22] [8422] [8435] [8437] [8438] [8476 11]
- agriculture [8419 31] [8424 81] [8432] [8433] [8434] [8436]
- cooling and freezing [8418]
- printing and book-binding [8440] [8442] [8443]

(b) equipment and machinery for the production of:

- industrial handling equipment and machinery [8425] [8426] [8427] [8428] [8429] [8430] [8431]
- road and agricultural vehicles [chapter 87]
- rolling stock [chapter 86]
- vessels [chapter 89]

In any case, whatever their use or intended final purpose, the placing on the market of cadmiumplated articles or components of such articles used in the sectors/applications listed in (a) and (b) above and of articles manufactured in the sectors listed in (b) above shall be prohibited.

6. The provisions referred to in paragraph 5 are also applicable to cadmiumplated articles or components of such articles when used in the sectors/applications listed in (a) and (b) below and to articles manufactured in the sectors listed in (b) below:

(a) equipment and machinery for the production of:

- paper and board [8419 32] [8439] [8441]
- textiles and clothing [8444] [8445] [8447] [8448] [8449] [8451] [8452]

(b) equipment and machinery for the production of:

- industrial handling equipment and machinery [8425] [8426] [8427] [8428] [8429] [8430] [8431]
- road and agricultural vehicles [chapter 87]

	<p>– rolling stock [chapter 86]          – vessels [chapter 89].          7. However, the restrictions in paragraphs 5 and 6 do not apply to:          – articles and components of the articles used in the aeronautical, aerospace, mining, offshore and nuclear sectors whose applications require high safety standards and in safety devices in road and agricultural vehicles, rolling stock and vessels,          – electrical contacts in any sector of use, on account of the reliability required of the apparatus on which they are installed.</p> <p>Owing to the development of knowledge and techniques in respect of substitutes less dangerous than cadmium and its compounds, the Commission shall, in consultation with the Member States, assess the situation at regular intervals in accordance with the procedure laid down in Art 113(3) of the present Regulation.</p>
	<b>Use or uses that remain allowed</b>
	All other uses not listed in the table above.

<b>2.5.2</b>	<b>Final regulatory action has been taken for the chemical category</b>	⊖	<b>Pesticide</b>
	<b>Formulation(s) and use or uses prohibited by the final regulatory action</b>		
	<b>Formulation(s) and use or uses that remain allowed</b>		

<b>2.5.3 Estimated quantity of the chemical produced, imported, exported and used, where available.</b>		
	<b>Quantity per year (MT)</b>	<b>Year</b>
<b>Produced</b>		
<b>Imported</b>		
<b>Exported</b>		
<b>Used</b>		

<b>2.6</b>	<b>Indication, to the extent possible, of the likely relevance of the final regulatory action to other states and regions</b>
	Decision taken in accordance with EU bans and restrictions Directive 76/769/EEC.

<b>2.7 Other relevant information that may cover:</b>	
<b>2.7.1</b>	<b>Assessment of socio-economic effects of the final regulatory action</b>

<b>2.7.2</b>	<b>Information on alternatives and their relative risks</b>
<b>2.7.3</b>	<b>Relevant additional information</b>

**PART III : GOVERNMENT AUTHORITIES**

Ministry/Department and authority responsible for issuing/enforcing the final regulatory action	
<b>Institution</b>	Environmental State Inspectorate
<b>Address</b>	Rupniecibas iela 23 Riga LV-1045 Latvia
<b>Telephone</b>	+371 7325209; +371 7321200; +371 7320506
<b>Telefax</b>	+371 7321577
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Designated National Authority	
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<b>Address</b>	Straumes iela 2 Jurmala LV-2015 Latvia
<b>Name of person in charge</b>	Arnis Ludborzs
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<b>Telephone</b>	+371 7755409
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Date, signature of DNA and official seal: Director DN



Ilze Kirstuka