



SUBSTANCES AND THEIR PREPARATIONS CONTROLLED UNDER THE ROTTERDAM CONVENTION

The Rotterdam Convention covers pesticides and industrial chemicals that have been banned or severely restricted for health or environmental reasons by Parties and which have been notified by Parties for inclusion in the Prior Informed Consent (PIC) procedure.

The PIC procedure is a mechanism for formally obtaining and disseminating the decisions of importing Parties as to whether they wish to receive future shipments of those chemicals listed in Annex III of the Convention and for ensuring compliance with these decisions by exporting Parties.

The followings are the substances controlled under the Rotterdam Convention with their HS 2022 codes:

Pesticides			
Substances	CAS No	HS2022 HS2028	HS (Preparations)
2,4,5-T (ISO) (2,4,5 trichlorophenoxyacetic acid), and its salts and esters	93-76-5**	2918.91	3808.59
Alachlor	15972-60-8	2924.25	3808.59
Aldicarb	116-06-3	2930.80 2930.81	3808.59
Aldrin	309-00-2	2903.82	3808.59 3824.84
Azinphos-methyl	86-50-0	2933.92	3808.59
Binapacryl	485-31-4	2916.16	3808.59
Captafol	2425-06-1	2930.80 2930.81	3808.59
Carbofuran	1563-66-2	2932.96	3808.59
Chlordane	57-74-9	2903.82	3808.59 3824.84
Chlordimeform	6164-98-3	2925.21	3808.59
Chlorobenzilate	510-15-6	2918.18	3808.59
DDT	50-29-3	2903.92	3808.52 3808.59 3824.84
Dieldrin	60-57-1	2910.40	3808.59 3824.84
Dinitro-ortho-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	2908.92	3808.59
Dinoseb and its salts and esters (esters 2915.36, etc)	88-85-7**	2908.91	3808.59
Dinoseb acetate	2813-95-8	2915.36	3808.59
EDB (1,2-dibromoethane)	106-93-4	2903.62	3808.59 3811.19 3827.90



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Substances	CAS No	HS2022 HS2028	HS (Preparations)
Endosulfan	115-29-7	2920.30	3808.59 3824.84
Ethylene dichloride	107-06-2	2903.15	3808.59 3827.90
Ethylene oxide	75-21-8	2910.10	3808.59 3824.81
Fluoroacetamide	640-19-7	2924.12	3808.59
HCH (mixed isomers)	608-73-1	2903.81	3808.59 3824.85
Heptachlor	76-44-8	2903.82	3808.59 3824.84
Hexachlorobenzene	118-74-1	2903.92	3808.59 3824.86
Lindane (gamma-HCH)	58-89-9	2903.81	3808.59 3824.85
Mercury compounds, including inorganic mercury compounds, alkyl mercury compounds and alkyloxyalkyl and aryl mercury compounds		2852.10	3808.59
Methamidophos	10265-92-6	2930.80 2930.81	3808.59
Monocrotophos	6923-22-4	2924.12	3808.59
Parathion	56-38-2	2920.11	3808.59
Pentachlorophenol and its salts and esters	87-86-5	2908.11 2908.19	3808.59 3824.99
Phorate	298-02-2	2930.90 2930.82	3808.91 3808.59
Terbufos	13071-79-9	2930.90 2930.82	3808.91 3808.59
Toxaphene (camphechlor)	8001-35-2	n.a	3808.59 3824.84
Tributyl tin compounds	1461-22-9, 1983-10-4, 2155-70-6, 24124-25-2, 4342-36-3, 56-35-9, 85409-17-2	2931.20	3808.59
Trichlorfon	52-68-6	2931.54 2931.84	3808.59
Dustable powder formulations containing a combination of benomyl at or above 7%, carbofuran at or above 10% and thiram at or above 15%	137-26-8, 1563-66-2, 17804-35-2	n.a	3808.59



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Substances	CAS No	HS2022 HS2028	HS (Preparations)
Methyl-parathion (Emulsifiable concentrates (EC) at or above 19.5% active ingredient and dusts at or above 1.5% active ingredient)	298-00-0	2920.11 (pure)	3808.59
Phosphamidon (Soluble liquid formulations of the substance that exceed 1000 g active ingredient/l)	13171-21-6 23783-98-4 (Z isomer) 297-99-4 (E isomer)	2924.12 (pure or isomer)	3808.59

Industrial Chemical Substances

Substances	CAS No	HS2022 HS2028	HS (Mixtures)
Asbestos	Actinolite asbestos	77536-66-4	6811.40 68.12 6813.20
	Amosite asbestos	12172-73-5	
	Anthophyllite asbestos	77536-67-5	
	Crocidolite asbestos	12001-28-4	
	Tremolite asbestos	77536-68-6	
Commercial octabromodiphenyl ether (including hexabromodiphenyl ether and heptabromodiphenyl ether)	36483-60-0 (Hexa), 68928-80-3 (Hepta)	2909.30 2909.39	3824.88
Commercial pentabromodiphenyl ether (including tetrabromodiphenylether and pentabromodiphenyl ether)	32534-81-9 (Penta), 40088-47-9 (Tetra)	2909.30 2909.39	3824.88
Decabromodiphenyl ether (decaBDE)	1163-19-5	2909.30 2909.31	3824.99 3824.88
Hexabromocyclododecane (HBCDs)	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	2903.89 2903.84	3824.99 3824.88
Perfluorooctane sulphonic acid, perfluorooctane sulphonates, perfluorooctane sulphonamides and perfluorooctane sulphonyls	1691-99-2, 1763-23-1, 24448-09-7, 251099-16-8, 2795-39-3, 29081-56-9, 29457-72-5, 307-35-7, 31506-32-8, 4151-50-2, 56773-42-3, 70225-14-8	2904.31 2904.32 2904.33 2904.34 2904.36 2922.16 2923.30 2923.40 2935.10 2935.20 2935.30 2935.40	3808.59 3824.87



SUBSTANCES AND THEIR PREPARATIONS CONTROLLED UNDER THE ROTTERDAM CONVENTION

Substances	CAS No	HS2022 HS2028	HS (Mixtures)
Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds	335-67-1	2915.90 2915.91	3824.99 3824.87
Polybrominated Biphenyls (PBBs)	13654-09-6, 27858-07-7, 36355-01-8	2903.94 2903.99	3824.82
Polychlorinated Biphenyls (PCBs)	1336-36-3	2903.99	3824.82
Polychlorinated Terphenyls (PCTs)	61788-33-8	2903.99	3824.82
Short-chain chlorinated paraffins (SCCP)	85535-84-8	n.a	3824.89
Tetraethyl lead	78-00-2	2931.10	3811.11 3824.99
Tetramethyl lead	75-74-1	2931.10	3811.11 3824.99
Tributyltin compounds	1461-22-9, 1983-10-4, 2155-70-6, 24124-25-2, 4342-36-3, 56-35-9, 85409-17-2	2931.20	3808.59
Tris(2,3- dibromopropyl)phosphate	126-72-7	2919.10	3824.83

** 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.

Rows in red means that the chemical is controlled by both Rotterdam and Stockholm Conventions (subject to the PIC procedure)

Aldrin	309-00-2	2903.82	3808.59 3824.84
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SUBSTANCES AND THEIR PREPARATIONS CONTROLLED UNDER THE STOCKHOLM CONVENTION

The Stockholm Convention on Persistent Organic Pollutants (POPs) is a global treaty to protect human health and the environment from chemicals that remain intact in the environment for long periods, become widely distributed geographically, accumulate in the fatty tissue of humans and wildlife, and have harmful impacts on human health or on the environment.

Exposure to POPs can lead to serious health effects including certain cancers, birth defects, dysfunctional immune and reproductive systems, greater susceptibility to disease and damages to the central and peripheral nervous systems. Given their long-range transport, no government acting alone can protect its citizens or its environment from POPs.

In response to this global problem, the Stockholm Convention, which was adopted in 2001 and entered into force in 2004, requires its parties to take measures to eliminate or reduce the release of POPs into the environment.

Among others, the provisions of the Convention require each party to:

- Prohibit and/or eliminate the production and use, as well as the import and export, of the intentionally produced POPs that are listed in Annex A to the Convention (Article 3).
- Restrict the production and use, as well as the import and export, of the intentionally produced POPs that are listed in Annex B to the Convention (Article 3).
- Reduce or eliminate releases from unintentionally produced POPs that are listed in Annex C to the Convention (Article 5).
- Ensure that stockpiles and wastes consisting of, containing or contaminated with POPs are managed safely and in an environmentally sound manner (Article 6).
- To target additional POPs (Article 8).

The followings are the substances controlled under the Stockholm Convention with their HS 2022 codes:

CHEMICAL ANNEX A				
Substances	Category	CAS No	HS2022 HS2028	HS (Preparations)
Aldrin	Pesticide	309-00-2	2903.82	3808.59 3824.84
Chlordane	Pesticide	57-74-9	2903.82	3808.59 3824.84
Chlordecone*	Pesticide	143-50-0	2914.71	3808.91 3824.84
Chlorpyrifos*	Pesticide	2921-88-2	2933.39	3808.91 3824.99
Dechlorane Plus*	Flame retardant, particularly in electrical and electronic equipment	13560-89-9 135821-03-3 135821-74-8	2903.89	3824.99
Dicofol*	Pesticide	115-32-2 10606-46-9	2906.29	3808.91 3824.99



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Substances	Category	CAS No	HS2022 HS2023	HS (Preparations)
Dieldrin	Pesticide	60-57-1	2910.4	3808.59 3824.84
Endosulfan*	Pesticide	115-29-7 959-98-8; 33213-65-9	2920.3	3808.59 3824.84
Endrin	Pesticide	72-20-8	2910.5	3808.91 3824.84
Heptachlor	Pesticide	76-44-8	2903.82	3808.59 3824.84
Hexabromobiphenyl*	Flame retardant	36355-01-8 59536-65-1 67774-32-7	2903.94	3824.82
Hexabromocyclododecanes*	Flame retardant	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	2903.89 2903.84	3824.99 3824.88
Tetrabromodiphenyl ether*	Flame retardant	40088-47-9 5436-43-1	2909.30 2909.39	3824.88
Pentabromodiphenyl ether*	Flame retardant	32534-81-9 60348-60-9	2909.30 2909.39	3824.88
Hexabromodiphenyl ether*	Flame retardant	68631-49-2 36483-60-0**	2909.30 2909.39	3824.88
Heptabromodiphenyl ether*	Flame retardant	446255-20-5 68928-80-3**	2909.30 2909.39	3824.88
Octabromodiphenyl ether	Flame retardant	32536-52-0	2909.30 2909.39	3824.88
Decabromodiphenyl ether* c-decaBDE	Flame retardant additive	1163-19-5	2909.30 2909.31	3824.99 3824.88
Hexachlorobenzene (HCB)	Pesticide	118-74-1	2903.92	3808.59 3824.86
Hexachlorobutadiene* (HCBd)	Solvent	87-68-3	2903.29	3824.99
Hexachlorocyclohexanes HCH*	Pesticide	608-73-1	2903.81	3808.59 3824.85



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Substances	Category	CAS No	HS2022 HS2028	HS (Preparations)
alpha-HCH*	Pesticide	319-84-6	2903.81	3808.59 3824.85
beta-HCH*	Pesticide	319-85-7	2903.81	3808.59 3824.85
gamma-HCH (Lindane)*	Pesticide	58-89-9	2903.81	3808.59 3824.85
delta-HCH	Pesticide	319-86-8	2903.81	3808.59 3824.85
Long-chain perfluorocarboxylic acids, their salts and related compounds*	Additive in several products	No info		
Mirex	Pesticide	2385-85-5	2903.83	3808.91 3824.84
Pentachlorobenzene*	Several uses	608-93-5	2903.93	3824.86
Pentachlorophenol and its salts and esters*	Pesticide	87-86-5**	2908.11 2908.19	3808.59 3824.99
Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds*	Used in several consumer goods	355-46-4	2904.99	
Polychlorinated biphenyls, (PCBs)	Industrial	1336-36-3	2903.99	3824.82
Polychlorinated naphthalenes*	Used in several applications	70776-03-3	2903.99	3824.99
Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds*	Production of fluoro elastomers and fluoropolymers	335-67-1	2915.90 2915.91	3824.87
Short-chain chlorinated paraffins*	Additive in several products	85535-84-8; 68920-70-7; 71011-12-6; 85536-22-7; 85681-73-8; 108171-26-2		3824.89
Medium-chain chlorinated paraffins*	Additive in several products	No info		3824.99
Methoxychlor*	Pesticide	72-43-5	2909.3	3808.91
Toxaphene	Pesticide	8001-35-2		3808.59 3824.84
UV-328	Light stabilizer for plastics	25973-55-1	2933.99	3824-99



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Substances	Category	CAS No	HS2022 HS2028	HS (Preparations)
CHEMICAL ANNEX B				
DDT	Pesticide	50-29-3	2903.92	3808.52 3808.59 3824.84
Perfluorooctane sulphonic acid (PFOS) and its salts*: Ammonium perfluorooctane sulphonate Lithium perfluorooctane sulphonate Potassium perfluorooctane sulphonate Other salts	Used in several products	1763-23-1 29081-56-9 29457-72-5 2795-39-3	2904.31 2904.32 2904.33 2904.34 2904.35	3808.59 3824.87
Perfluorooctane sulphonyl fluoride (PFOSF)*	Used in several products	307-35-7	2904.36	3824.87
CHEMICAL ANNEX C				
Hexachlorobenzene (HCB)	Industrial By-product	118-74-1	2903.92	3808.59 3824.86
Hexachlorobutadiene* (HCBd)	By-product	87-68-3	2903.29	3824.99
Pentachlorobenzene*	Industrial By-product	608-93-5	2903.93	3824.86
Polychlorinated biphenyls, (PCBs)	Industrial By- product	1336-36-3	2903.99	3824.82
Polychlorinated dibenzo-p- dioxins (PCDDs)	By-product		2932.99	3824.99
Polychlorinated dibenzofurans (PCDFs)	By-product		2932.99	3824.99
Polychlorinated naphthalenes*	Used in several applications	70776-03-3	2903.99	3824.99

* New POPs

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Aldrin		309-00-2	2903.82	3808.59 3824.84
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REFERENCES

Rotterdam Convention. Annex III Chemicals.

<https://www.pic.int/TheConvention/Chemicals/AnnexIIIChemicals/tabid/1132/language/en-US/Default.aspx>

Rotterdam Convention. Overview.

<https://www.pic.int/TheConvention/Overview/tabid/1044/language/en-US/Default.aspx>

Stockholm Convention. All POPs listed in the Stockholm Convention.

<https://www.pops.int/TheConvention/ThePOPs/AllPOPs/tabid/2509/Default.aspx>

Stockholm Convention. Overview.

<https://www.pops.int/TheConvention/Overview/tabid/3351/Default.aspx>

World Customs Organization. The Substances Controlled under Certain Conventions. <https://www.wcoomd.org/-/media/wco/public/global/pdf/topics/key-issues/customs-laboratories/materials-for-the-classification-of-chemical-products/substances-controlled-under-certain-conventions.pdf>