




# **Stockholm Convention Chemicals Identification Tool**

(Last update in March 2022)

# ALDRIN

<b>Substance name</b>	Hexachloro-1,2,3,4,10,10-hexahydro-1,4,4a,5,8,8a-exo-1,4-endo-5,8-dimethanonaphthalene. 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-endo-1,4-exo-5,8-dimethanonaphthalene.	
<b>Chemical type</b>	Pesticide	
<b>CAS number</b>	309-00-2	
<b>Harmonized System Code</b>	<u>Pure</u>	<u>Mixture</u>
	2903.52	3808.50
<b>Physical appearance</b>	Solid, formed of colorless crystals	Solid, from light brown to dark brown crystals Powder Emulsifiable <i>concentrate</i> <i>Oily solution</i> <i>Granules</i> <i>Wettable powder</i>
<b>Uses</b>	Aldrin is a pesticide applied to soils to kill termites, grasshoppers, corn rootworm, and other insect pests.	
<b>Packaging</b>	Packaging is likely to be: drums, bottles (if substance liquid) or bags, packets (if solid)	
<b>Pictograms</b>	 Chronic health hazard	 Environmental hazard
		 Acute toxicity
<b>Handling Precautions</b>	Protective latex gloves, respiration masks and safety glasses should be worn. Arms and legs should be covered.	
<b>Storage conditions</b>	<ul style="list-style-type: none"> <li>• Use a device to stop the flow in any possible situation (fire, outflow, spillage)</li> <li>• Separate from incompatible substances (fuel, other toxic substances), food and food products</li> <li>• Close properly</li> <li>• Keep in well-ventilated premises</li> </ul>	
<b>For more information</b>	<p>International Chemical Safety Cards <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011 <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p>The National Focal Point, Official Contact Point and Competent Authority in your country</p>	




## References:

Project “development of Customs assistance materials aimed at enhancing the enforcement and national implementation of the Stockholm Convention” in Senegal, COTECNA (May 2006).

International Chemical Safety Cards (ICSCs) at: <http://www.inchem.org>.

Annex VI to Regulation (EC) No 1272/2008 <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>

## ALPHA HEXACHLOROCYCLOHEXANE (alpha-HCH)

<b>Chemical name</b>	Alpha-hexachlorocyclohexane (alpha-HCH)		
<b>Synonyms/ abbreviations</b>	1,2,3,4,5,6-hexachlorocyclohexane, alpha isomer, (1alpha,2alpha,3beta,4alpha,5beta,6beta)-1,2,3,4,5,6-hexachlorocyclohexane, alpha-1,2,3,4,5,6-Hexachlorocyclohexane; alphabenzene hexachloride, alpha-BHC, alpha-HCH, alpha-lindane, benzene-transhexachloride, Hexachlorocyclohexane-Alpha		
<b>Chemical type</b>	Pesticide; by-product		
<b>CAS number</b>	319-84-6		
<b>Harmonized System Code</b>	<u>Pure</u> 2903.51	<u>Mixture</u> 3808.50	
<b>Physical appearance</b>	Brown to white crystalline powder, with characteristic odor.		
<b>Uses</b>	Although the intentional use of alpha-HCH as an insecticide was phased out years ago, these chemicals are still produced as an unintentional by-product of lindane.		
<b>Pictograms</b>	 Acute toxicity	 Chronic health hazard	 Environmental hazard
<b>Handling precautions</b>	Protective latex gloves, respiration masks and safety glasses should be worn. Arms and legs should be covered.		
<b>Storage conditions</b>	<ul style="list-style-type: none"> <li>• Well closed</li> <li>• Store in an area without drain or sewer access</li> <li>• Provision to contain effluent from fire extinguishing</li> <li>• Separated from bases, metals, food and feedstuffs</li> </ul>		
<b>For more information</b>	International Chemical Safety Cards <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a>  The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4 <sup>th</sup> revised edition 2011 <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a>  The National Focal Point, Official Contact Point and Competent Authority in your country		




### References:

Risk Profile on alpha-hexachlorocyclohexane (UNEP/POPS/POPRC.3/20/Add.8), POPs Review Committee, 2008.

International Chemical Safety Cards (ICSCs) at: <http://www.inchem.org>.

Annex VI to Regulation (EC) No 1272/2008 <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>

## BETA-HEXACHLOROCYCLOHEXANE (Beta-HCH)

<b>Chemical name</b>	Beta-hexachlorocyclohexane (beta-HCH)		
<b>Synonyms/ abbreviations</b>	Beta-1,2,3,4,5,6-Hexachlorocyclohexane; Beta-Benzenehexachloride; beta-BHC; benzene-cis-hexachloride; beta-HCH; beta-Hexachlorocyclohexane; beta-Hexachlorocyclohexane; beta-isomer; beta-lindane; Hexachlorocyclohexane-Beta; trans-alpha-benzenehexachloride; betabenzenehexachloride		
<b>Chemical type</b>	Pesticide; by-product		
<b>CAS registry number</b>	319-85-7		
<b>Physical appearance</b>	White crystalline powder		
<b>Uses</b>	Although the intentional use of beta-HCH as an insecticide was phased out years ago, these chemicals are still produced as an unintentional by-product of lindane.		
<b>Harmonized System Code</b>	<u>Pure</u> 2903.51	<u>Mixture</u> 3808.50	
<b>Pictograms</b>	 Acute toxicity	 Chronic health hazard	 Environmental hazard
<b>Handling precautions</b>	Protective latex gloves, respiration masks and safety glasses should be worn. Arms and legs should be covered.		
<b>Storage</b>	<ul style="list-style-type: none"> <li>• Well closed</li> <li>• Store in an area without drain or sewer access</li> <li>• Provision to contain effluent from fire extinguishing</li> <li>• Separated from bases, metals, food and feedstuffs</li> </ul>		
<b>For more information</b>	<p>International Chemical Safety Cards <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011 <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p>The National Focal Point, Official Contact Point and Competent Authority in your country</p>		



### References:

Risk Profile on beta-hexachlorocyclohexane (UNEP/POPS/POPRC.3/20/Add.9), POPs Review Committee, 2007.

International Chemical Safety Cards (ICSCs) at: <http://www.inchem.org>.

Annex VI to Regulation (EC) No 1272/2008 <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>

## CHLORDANE

<b>Substance name</b>	1,2,4,5,6,7,8,8-Octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene	
<b>Chemical type</b>	Pesticide	
<b>CAS number</b>	57-74-9	
<b>Harmonized System Code</b>	<u>Pure</u> 2903.52	<u>Mixture</u> 3808.50
<b>Physical appearance</b>	Solid, formed of colorless crystals	Powder Emulsifiable <i>concentrate</i> <i>Oily solution</i> <i>Granules</i> <i>Wettable powder</i>
<b>Uses</b>	Chlordane is used extensively to control termites and as a broad-spectrum insecticide on a range of agricultural crops.	
<b>Packaging</b>	Packaging is likely to be: drums, bottles (if substance liquid) or bags, packets (if solid)	
<b>Pictograms</b>	 Environmental hazard	 Chronic health hazard
<b>Handling precautions</b>	Protective latex gloves, respiration masks and safety glasses should be worn. Arms and legs should be covered.	
<b>Storage conditions</b>	<ul style="list-style-type: none"> <li>• Use a device to stop the flow in any possible situation (fire, outflow, spillage)</li> <li>• Separate from incompatible substances (fuel, other toxic substances), food and food products</li> <li>• Close properly</li> <li>• Keep in well-ventilated premises</li> </ul>	
<b>For more information</b>	<p>International Chemical Safety Cards <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011 <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p>The National Focal Point, Official Contact Point and Competent Authority in your country</p>	




### References:

Project “development of Customs assistance materials aimed at enhancing the enforcement and national implementation of the Stockholm Convention” in Senegal, COTECNA, (May 2006)

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## CHLORDECONE

<b>Chemical name</b>	1,1a,3,3a,4,5,5a,5b,6-Decachloro-octahydro-1,3,4-metheno-2H-cyclobuta(cd)pentalen-2-one		
<b>Synonyms and abbreviations</b>	Decachloropentacyclo-[5,2,1,02,6,03,9,05,8]-decan-4-one, Decachlorooctahydro-1,3,4-metheno-2H,5H-cyclobuta-[cd]-pentalen-2-one, Decachloroketone		
<b>Chemical type</b>	Pesticide		
<b>CAS registry number</b>	143-50-0		
<b>Physical appearance</b>	Tan – to white – colored solid crystals		
<b>Uses</b>	Chlordecone was mainly used as an agricultural pesticide. It was first produced in 1951 and introduced commercially in 1958. Currently, no use or production of the chemical is reported.		
<b>Harmonized System Code</b>	None		
<b>Pictograms</b>	 <b>Acute toxicity</b>	 <b>Chronic health hazard</b>	 <b>Environmental hazard</b>
<b>Handling precautions</b>	Protective latex gloves, respiration masks and safety glasses should be worn. Arms and legs should be covered.		
<b>Storage</b>	<ul style="list-style-type: none"> <li>• Provision to contain effluent from fire extinguishing</li> <li>• Separated from acids</li> </ul>		
<b>For more information</b>	<p>International Chemical Safety Cards <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011  <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p>The National Focal Point, Official Contact Point and Competent Authority in your country</p>		




**References:**

Risk Profile on Chlordecone (UNEP/POPS/POPRC.3/20/Add.10), POPs Review Committee, 2007.

International Chemical Safety Cards (ICSCs) at: <http://www.inchem.org>.

Annex VI to Regulation (EC) No 1272/2008 <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>

## COMMERCIAL OCTABROMODIPHENYL ETHER (HEXABROMODIPHENYL ETHER AND HEPTABROMODIPHENYL ETHER)

<b>Chemical name</b>	Commercial mixture of octabromodiphenyl ether has four major components: 2,2',4,4',5,5'-hexabromodiphenyl ether 2,2',4,4',5,6'-hexabromodiphenyl ether 2,2',3,3',4,5',6-heptabromodiphenyl ether; and 2,2',3,4,4',5',6-heptabromodiphenyl ether		
<b>Synonyms/ abbreviations</b>	octabromobiphenyl oxide; octabromodiphenyl oxide; octabromo phenoxybenzene and benzene; 1,1' oxybis-, octabromo derivative		
<b>Chemical type</b>	Industrial chemical		
<b>CAS registry number</b>	68631-49-2 (for 2,2',4,4',5,5'-hexabromodiphenyl ether (BDE-153)) 207122-15-4 (for 2,2',4,4',5,6'-hexabromodiphenyl ether (BDE-154)) 446255-22-7 (for 2,2',3,3',4,5',6-heptabromodiphenyl ether (BDE-175)) 207122-16-5 (for 2,2',3,4,4',5',6-heptabromodiphenyl ether (BDE-183))		
<b>Uses</b>	Used mainly as flame retardants principally in the plastics industry for flame-retarded polymer products, which are typically used for housings of office equipment and business machines. They inhibit or suppress combustion in organic material.		
<b>Harmonized System Code</b>	None		
<b>Pictograms</b>	 Acute toxicity	 Chronic health hazard	 Environmental hazard
<b>Handling precautions</b>	Protective latex gloves, respiration masks and safety glasses should be worn. Arms and legs should be covered.		
<b>Storage</b>	<ul style="list-style-type: none"> <li>Well closed</li> <li>Store in an area without drain or sewer access</li> <li>Provision to contain effluent from fire extinguishing</li> <li>Separated from bases, metals, food and feedstuffs</li> </ul>		
<b>For more information</b>	<p>International Chemical Safety Cards <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011 <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p>The National Focal Point, Official Contact Point and Competent Authority in your country</p>		




### References:

Risk Profile on commercial octabromodiphenyl ether (UNEP/POPS/POPRC.3/20/Add.6), POPs Review Committee, 2007.

International Chemical Safety Cards (ICSCs) at: <http://www.inchem.org>.

Annex VI to Regulation (EC) No 1272/2008 <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>

## COMMERCIAL PENTABROMODIPHENYL ETHER (TETRABROMODIPHENYL ETHER AND PENTABROMODIPHENYL ETHER)

<b>Chemical name</b>	Commercial pentabromodiphenyl ether has two major components: 2,2',4,4'-tetrabromodiphenyl ether and 2,2',4,4',5-pentabromodiphenyl ether		
<b>Synonyms/ abbreviations</b>	Pentabromodiphenyl ether (PeBDPE and PentaBDPE), Benzene, 1,1'-oxybis-, pentabromo derivative, Pentabromophenoxybenzene, Pentabromobi(s)phenyl ether; biphenyl ether, pentabromo derivative = PeBBE, Pentabromobi(s)phenyl oxide = PeBBO, Pentabromodiphenyl oxide = PeBDPO = PentaBDPO		
<b>Chemical type</b>	Industrial chemical		
<b>CAS registry number</b>	5436-43-1 (for 2,2',4,4'-tetrabromodiphenyl ether (BDE-47)) 60348-60-9 (for and 2,2',4,4',5-pentabromodiphenyl ether (BDE-99))		
<b>Uses</b>	<p>Bromodiphenyl ether congeners are a group of brominated organic substances that inhibit or suppress combustion in organic materials, which are used as additive flame retardants. Brominated diphenyl ethers are mainly manufactured as commercial mixtures where several isomers, congeners and small amounts of other substances occur.</p> <p>Used almost exclusively in the manufacture of flexible polyurethane (PUR) foam for furniture and upholstery in homes and vehicles, packaging, and non-foamed PUR for parts of electronic equipment.</p>		
<b>Pictograms</b>	 Acute toxicity	 Chronic health hazard	 Environmental hazard
<b>Harmonized System Code</b>	None		
<b>Handling precautions</b>	Protective latex gloves, respiration masks and safety glasses should be worn. Arms and legs should be covered.		
<b>Storage</b>	<ul style="list-style-type: none"> <li>• Well closed</li> <li>• Store in an area without drain or sewer access</li> <li>• Provision to contain effluent from fire extinguishing</li> <li>• Separated from bases, metals, food and feedstuffs</li> </ul>		
<b>For more information</b>	<p>International Chemical Safety Cards <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011 <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p>The National Focal Point, Official Contact Point and Competent Authority in your country</p>		

### References:

Risk Profile on commercial pentabromodiphenyl ether (UNEP/POPS/POPRC.2/17/Add.1), POPs Review Committee, 2007.

International Chemical Safety Cards (ICSCs) at: <http://www.inchem.org>.




Annex VI to Regulation (EC) No 1272/2008 <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>



## Decabromodiphenyl ether (commercial mixture, c-decaBDE)

<b>Chemical name</b>	The commercial mixture consists primarily of the fully brominated decaBDE congener in a concentration range of 77.4-98 %, and smaller amounts of the congeners of nonaBDE (0.3-21.8 %) and octaBDE (0-0.04 %)		
<b>Synonyms/ abbreviations</b>			
<b>Chemical type</b>	Industrial chemical		
<b>CAS registry number</b>	1163-19-5		
<b>Uses</b>	DecaBDE is used as an additive flame retardant, and has a variety of applications including in plastics/polymers/composites, textiles, adhesives, sealants, coatings and inks. DecaBDE containing plastics are used in housings of computers and TVs, wires and cables, pipes and carpets. Commercially available decaBDE consumption peaked in the early 2000's, but c-decaBDE is still extensively used worldwide.		
<b>Pictograms</b>			
<b>Harmonized System Code</b>	None		
<b>Handling precautions</b>			
<b>Storage</b>			
<b>For more information</b>	<p>International Chemical Safety Cards <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011  <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p>The National Focal Point, Official Contact Point and Competent Authority in your country</p>		

## DDT

<b>Substance name</b>	Dichlorodiphenyltrichloroethane 1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane; 2,2-bis(p-Chlorophenyl)-1,1,1-trichloroethane		
<b>Chemical type</b>	Pesticide		
<b>CAS number</b>	50-29-3		
<b>Harmonized System Code</b>	<u>Pure</u>	<u>Mixture</u>	
	2903.62 / 2909.30	3808.50	
<b>Physical appearance</b>	Colourless crystals or white powder odourless or with a slight odor	<ul style="list-style-type: none"> <li>- Waxy solid</li> <li>- Solution in Xylene</li> <li>- Emulsifiable concentrate</li> <li>- Aerosol</li> <li>- Granules</li> <li>- Wettable powder</li> </ul>	
<b>Uses</b>	DDT is still used against mosquitoes to control malaria in several countries. It is infamous for decimating bald eagle, osprey, and other predatory bird populations and for contaminating nursing mothers' milk.		
<b>Packaging</b>	Packaging is likely to be: drums, bottles (if substance liquid) or bags, packets (if solid)		
<b>Pictograms</b>	 Environmental hazard	 Chronic health hazard	 Acute toxicity
<b>Handling Precautions</b>	Protective latex gloves, respiration masks and safety glasses should be worn. Arms and legs should be covered.		
<b>Storage conditions</b>	<ul style="list-style-type: none"> <li>• Use a device to stop the flow in any possible situation (fire, outflow, spillage)</li> <li>• Separate from incompatible substances (fuel, other toxic substances), food and food products</li> <li>• Close properly</li> <li>• Keep in well-ventilated premises</li> </ul>		
<b>For more information</b>	International Chemical Safety Cards <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a>  The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4 <sup>th</sup> revised edition 2011 <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a>  The National Focal Point, Official Contact Point and Competent Authority in your country		

### References:

Project "development of Customs assistance materials aimed at enhancing the enforcement and national implementation of the Stockholm Convention" in Senegal, COTECNA (May 2006).




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## Dicofol

<b>Chemical name</b>	Dicofol is an organochlorine pesticide comprising two isomers: p,p'-dicofol and o,p'-dicofol. The technical product (95% pure) is a brown viscous oil and is composed of 80-85% p,p'-dicofol and 15-20% o,p'-dicofol with up to 18 reported impurities.		
<b>Synonyms/ abbreviations</b>			
<b>Chemical type</b>	Industrial chemical		
<b>CAS registry number</b>	115-32-2 (for 2,2,2-trichloro-1,1-bis(4-chlorophenyl)ethanol (p,p'-dicofol)) 10606-46-9 (for 2,2,2-Trichloro-1-(2-chlorophenyl)-1-(4-chlorophenyl)ethanol (o,p'-dicofol))		
<b>Uses</b>	Dicofol is an organochlorine miticidal pesticide that has been used in agriculture to control mites on a variety of field crops, fruits, vegetables, ornamentals, cotton, tea. It was also used an acaricide for cotton, citrus and apple crops.		
<b>Pictograms</b>			
<b>Harmonized System Code</b>	None		
<b>Handling precautions</b>	Protective gloves and safety glasses should be worn. Use local exhaust or breathing protection.		
<b>Storage</b>	<ul style="list-style-type: none"> <li>• Keep in well ventilated room</li> <li>• Separated from acids</li> </ul>		
<b>For more information</b>	<p>International Chemical Safety Cards <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011 <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p>The National Focal Point, Official Contact Point and Competent Authority in your country</p>		

## DIELDRIN

<b>Substance name</b>	Dieldrin		
<b>Chemical type</b>	Pesticide		
<b>CAS number</b>	60-57-1		
<b>Harmonized System Code</b>	<u>Pure</u> 2910.40	<u>Mixture</u> 3808.50	
<b>Physical Appearance</b>	White crystals or pale tan flakes, odourless to mild chemical odour.	Powder Emulsifiable <i>concentrate</i> <i>Granules</i> <i>Wettable powder</i>	
<b>Uses</b>	Used principally to control termites and textile pests, dieldrin has also been used to control insect-borne diseases and insects living in agricultural soils. Its half life in soil is approximately five years. The pesticide aldrin rapidly converts to dieldrin, so concentrations of dieldrin in the environment are higher than dieldrin use alone would indicate.		
<b>Packaging conditions</b>	Packaging is likely to be: drums, bottles (if substance liquid) or bags, packets (if solid).		
<b>Handling precautions</b>	Protective latex gloves, respiration masks and safety glasses should be worn. Arms and legs should be covered.		
<b>Pictograms</b>	 Chronic health hazard	 Environmental hazard	 Acute toxicity
<b>Storage conditions</b>	Use a device to stop the flow in any possible situation (fire, outflow, spillage) Separate from incompatible substances (fuel, other toxic substances), food and food products Close properly Keep in well-ventilated premises		
<b>For more information</b>	International Chemical Safety Cards <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a>  The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4 <sup>th</sup> revised edition 2011 <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a>  The National Focal Point, Official Contact Point and Competent Authority in your country		



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Annex VI to Regulation (EC) No 1272/2008 <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>

## TECHNICAL ENDOSULFAN AND ITS RELATED ISOMERS

<b>Substance name</b>	6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide	
<b>Chemical type</b>	Pesticide	
<b>CAS number</b>	Technical endosulfan: 115-29-7 Related isomers: 959-98-8 and 33213-65-9	
<b>Harmonized System Code</b>	<u>Pure</u> 2920.90	<u>Mixture</u> -
<b>Physical appearance</b>	Colourless crystals	Brown crystalline flakes
<b>Uses</b>	Endosulfan is an insecticide that has been used since the 1950s to control crop pests, tsetse flies and ectoparasites of cattle and as a wood preservative. As a broad-spectrum insecticide, endosulfan is currently used in a number of countries to control a wide range of pests on a variety of crops including coffee, cotton, rice, sorghum and soy.	
<b>Packaging</b>	Packaging is likely to be: drums, bottles (if substance liquid) or bags, packets (if solid)	
<b>Pictograms</b>	 Acute toxicity	 Environmental hazard
<b>Handling precautions</b>	Protective latex gloves, respiration masks and safety glasses should be worn. Arms and legs should be covered.	
<b>Storage conditions</b>	<ul style="list-style-type: none"> <li>• Provision to contain effluent from fire extinguishing</li> <li>• Separated from acids, bases, iron, food and feedstuffs</li> <li>• Dry</li> <li>• Well closed</li> </ul>	
<b>For more information</b>	<p>International Chemical Safety Cards  <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011  <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p>The National Focal Point, Official Contact Point and Competent Authority in your country</p>	



### References:

Risk profile on endosulfan (UNEP/POPS/POPRC.5/10/Add.2), POPS Review Committee, 2009.

International Chemical Safety Cards (ICSCs) at: <http://www.inchem.org>.

Annex VI to Regulation (EC) No 1272/2008 <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>

## ENDRIN

<b>Substance name</b>	3,4,5,6,9,9,-Hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-2,7:3,6-dimethanonaphth[2,3-b]oxirene.	
<b>Chemical type</b>	Pesticide	
<b>CAS number</b>	72-20-8	
<b>Harmonized System Code</b>	<u>Pure</u> -	<u>Mixture</u> 3808.91
<b>Physical appearance</b>	White, odourless, crystalline solid.	Solid of light brown colour with a light odor of chemical
<b>Uses</b>	This insecticide is sprayed on the leaves of crops such as cotton and grains. It is also used to control rodents such as mice and voles.	
<b>Packaging</b>	Packaging is likely to be: drums, bottles (if substance liquid) or bags, packets (if solid).	
<b>Pictograms</b>	 Environmental hazard	 Acute toxicity
<b>Handling precautions</b>	Protective latex gloves, respiration masks and safety glasses should be worn. Arms and legs should be covered.	
<b>Storage conditions</b>	Use a device to stop the flow in any possible situation (fire, outflow, spillage) Separate from incompatible substances (fuel, other toxic substances), food and food products Close properly Keep in well-ventilated premises	
<b>For more information</b>	International Chemical Safety Cards <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a>  The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4 <sup>th</sup> revised edition 2011 <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a>  The National Focal Point, Official Contact Point and Competent Authority in your country	




### References:

Project “development of Customs assistance materials aimed at enhancing the enforcement and national implementation of the Stockholm Convention” in Senegal, COTECNA (May 2006).

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# HEPTACHLOR

<b>Substance name</b>	1,4,5,6,7,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methanol-1H-indene.		
<b>Chemical type</b>	Pesticide		
<b>CAS number</b>	76-44-8		
<b>Harmonized System Code</b>	<i>Pure</i>	<i>Mixture</i>	
	2903.52	3808.50	
<b>Physical Appearance</b>	White or brownish yellow crystals with a camphor-like odour	<ul style="list-style-type: none"> <li>- Powder</li> <li>- Emulsifiable <i>concentrate</i></li> <li>- <i>Granules</i></li> <li>- <i>Wettable powder</i></li> </ul>	
<b>Uses</b>	Primarily used to kill soil insects and termites, heptachlor has also been used more widely to kill cotton insects, grasshoppers, other crop pests, and malaria-carrying mosquitoes.		
<b>Packaging</b>	Packaging is likely to be: drums, bottles (if substance liquid) or bags, packets (if solid).		
<b>Pictograms</b>			
	Chronic health hazard	Environmental hazard	Acute toxicity
	Protective latex gloves, respiration masks and safety glasses should be worn. Arms and legs should be covered.		
<b>Storage conditions</b>	<ul style="list-style-type: none"> <li>• Use a device to stop the flow in any possible situation (fire, outflow, spillage)</li> <li>• Separate from incompatible substances (fuel, other toxic substances), food and food products</li> <li>• Close properly</li> <li>• Keep in well-ventilated premises</li> </ul>		
<b>For more information</b>	<p>International Chemical Safety Cards  <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011  <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.htm">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.htm</a></p> <p>! The National Focal Point, Official Contact Point and Competent Authority in your country</p>		




## References:

Project “development of Customs assistance materials aimed at enhancing the enforcement and national implementation of the Stockholm Convention” in Senegal, COTECNA (May 2006).

International Chemical Safety Cards (ICSCs) at: <http://www.inchem.org>.

Annex VI to Regulation (EC) No 1272/2008 <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>

## HEXABROMOBIPHENYL

<b>Chemical name</b>	Hexabromo-1,1'-biphenyl		
<b>Synonyms/ abbreviations</b>	Hexabromocyclododecane and 1,2,5,6,9,10-hexabromocyclododecane Hexabromobiphenyl; biphenyl, hexabromo; 1,1'- biphenyl, hexabromo -; HBB		
<b>Chemical type</b>	Industrial chemical		
<b>CAS registry number</b>	36355-01-8		
<b>Physical Appearance</b>	Solid, composed of white and odourless crystals.		
<b>Uses</b>	Hexabromobiphenyl is an industrial chemical that has been used as a flame retardant, mainly in the 1970s. According to available information, it is no longer produced or used in most countries.		
<b>Harmonized System Code</b>	None		
<b>Pictograms</b>	 Acute toxicity	 Chronic health hazard	 Environmental hazard
<b>Handling precautions</b>	Protective latex gloves, respiration masks and safety glasses should be worn. Arms and legs should be covered.		
<b>For more information</b>	<p>International Chemical Safety Cards  <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011  <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p>The National Focal Point, Official Contact Point and Competent Authority in your country</p>		

### References:



Risk Profile on Hexabromodiphenyl (UNEP/POPS/POPRC.2/17/Add.3), POPs Review Committee, 2006.

International Chemical Safety Cards (ICSCs) at: <http://www.inchem.org>.

Annex VI to Regulation (EC) No 1272/2008 <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>



## HEXABROMOCYCLODODECANE (HBCDD)

<b>Chemical name</b>	Hexabromocyclododecane; 1,2,5,6,9,10-hexabromocyclododecane	
<b>Synonyms/ abbreviations</b>	Hexabromocyclododecane 1,2,5,6,9,10-hexabromocyclododecane HBCDD	
<b>Chemical type</b>	Industrial Chemical	
<b>CAS registry number</b>	25637-99-4; 3194-55-6	
<b>Physical Appearance</b>	White solid substance	
<b>Uses</b>	HBCD is used as a flame retardant additive, providing fire protection during the service life of vehicles, buildings or articles, as well as protection while stored. The main uses are in expanded and extruded polystyrene foam insulation while the use in textile applications and electric and electronic appliances is smaller.	
<b>Harmonized System Code</b>	2903.89 <sup>1</sup>	
<b>Pictograms</b>	 Chronic health hazard	 Environmental hazard
<b>Handling precautions</b>	Avoid inhalation of dust. Use ventilation (not if powder). Use local exhaust. Protective gloves and safety spectacles should be worn. Do not eat, drink, or smoke during work. Wash hands before eating.	
<b>For more information</b>	International Chemical Safety Cards <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a>  The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4 <sup>th</sup> revised edition 2011 <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a>  The National Focal Point, Official Contact Point and Competent Authority in your country	

### References:



Risk profile on hexabromocyclododecane. POPs Review Committee 2010; UNEP/POPS/POPRC.6/13/Add.2

International Chemical Safety Cards (ICSCs) at: <http://www.inchem.org>.

Annex VI to Regulation (EC) No 1272/2008 <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>

<sup>1</sup> This is as per the Decision Guidance Document for Hexabromocyclododecane under the Rotterdam Convention.

## HEXACHLOROBENZENE

<b>Substance name</b>	Hexachlorobenzene	
<b>Chemical type</b>	Pesticide; industrial chemical; by-product	
<b>CAS number</b>	118-74-1	
<b>Harmonized System Code</b>	<u>Pure</u>	<u>Mixture</u>
	2903.62	3808.50
<b>Physical appearance</b>	Colourless solid formed by crystals	Powder Dry seed treatment Gruel for wet seed treatment Combined to other products for seed protection
<b>Uses</b>	First introduced in 1945 to treat seeds, HCB kills fungi that affect food crops. It was widely used to control wheat bunt. It is also a by-product of the manufacture of certain industrial chemicals and exists as an impurity in several pesticide formulations.	
<b>Packaging conditions</b>	Packaging is likely to be: drums, bottles (if substance liquid) or bags, packets (if solid).	
<b>Pictograms</b>		
	Environmental hazard	Chronic health hazard
<b>Handling precautions</b>	Protective latex gloves, respiration masks and safety glasses should be worn. Arms and legs should be covered.	
<b>Storage conditions</b>	Plan a device to stop the flow in any possible situation (fire, outflow, spillage) Separate from incompatible substances (fuel, other toxic substances), food and food products Close properly Keep in well-ventilated premises	
<b>For more information</b>	<p>International Chemical Safety Cards  <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011  <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p>The National Focal Point, Official Contact Point and Competent Authority in your country</p>	

### References:

Project “development of Customs assistance materials aimed at enhancing the enforcement and national implementation of the Stockholm Convention” in Senegal, COTECNA (May 2006).




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## Hexachlorobutadiene

<b>Chemical name</b>	This chemical is a halogenated aliphatic compound, mainly created as a by-product in the manufacture of chlorinated aliphatic compounds.		
<b>Synonyms/ abbreviations</b>	HCBD		
<b>Chemical type</b>			
<b>CAS registry number</b>	87-68-3		
<b>Uses</b>	Most commonly used as a solvent for other chlorine-containing compounds.		
<b>Pictograms</b>			
<b>Harmonized System Code</b>	None		
<b>Handling precautions</b>	Protective gloves, protective clothing, face shield and eye protection should be worn along with breathing protection, use ventilation, local exhaust or breathing protection. Do not eat, drink, or smoke during work.		
<b>Storage</b>	<ul style="list-style-type: none"> <li>• Well closed</li> <li>• Ventilation along the floor</li> <li>• Separated from food and feedstuffs</li> <li>• Stored in an area without drain or sewer access</li> <li>• Provision to contain effluent from fire extinguishing</li> </ul>		
<b>For more information</b>	<p>International Chemical Safety Cards <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011  <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p>The National Focal Point, Official Contact Point and Competent Authority in your country</p>		

# LINDANE

<b>Chemical name</b>	gamma, 1,2,3,4,5,6-hexachlorocyclohexane		
<b>Synonyms/ abbreviations</b>	gamma benzene hexachloride; gamma-BHC		
<b>Chemical type</b>	Pesticide		
<b>CAS registry number</b>	58-89-9		
<b>Physical appearance</b>	White to off-white crystalline powder		
<b>Uses</b>	Lindane was used as a broad-spectrum insecticide for seed and soil treatment, foliar applications, tree and wood treatment and against ectoparasites in both veterinary and human treatments.		
<b>Harmonized System Code</b>	<i>Pure</i>	<i>Mixture</i>	
	2903.51	3808.50	
<b>Pictograms</b>			
	Acute toxicity	Chronic health hazard	Environmental hazard
	Protective latex gloves, respiration masks and safety glasses should be worn. Arms and legs should be covered.		
<b>Storage</b>	<ul style="list-style-type: none"> <li>Well closed</li> <li>Store in an area without drain or sewer access</li> <li>Provision to contain effluent from fire extinguishing</li> <li>Separated from bases, metals, food and feedstuffs</li> </ul>		
<b>For more information</b>	<p>International Chemical Safety Cards  <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011  <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p>The National Focal Point, Official Contact Point and Competent Authority in your country</p>		




## References:

Risk Profile on Lindane (UNEP/POPS/POPRC.2/17/Add.4), POPs Review Committee, 2006.

International Chemical Safety Cards (ICSCs) at: <http://www.inchem.org>.

Annex VI to Regulation (EC) No 1272/2008 <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>

## MIREX

<b>Substance name</b>	1,1a,2,2,3,3a,4,5,5a,5b,6-dodecachloroacta-hydro-1,3,4-metheno-1H-cyclobuta[cd]pentalene	
<b>Chemical type</b>	Pesticide	
<b>CAS number</b>	2385-85-5	
<b>Harmonized System Code</b>	<u>Pure</u>	<u>Mixture</u>
	-	-
<b>Physical appearance</b>	White crystalline, odourless solid.	
<b>Uses</b>	This insecticide is used mainly to combat fire ants, and it has been used against other types of ants and termites. It has also been used as a fire retardant in plastics, rubber, and electrical goods.	
<b>Packaging</b>	Packaging is likely to be: drums, bottles (if substance liquid) or bags, packets (if solid).	
<b>Pictograms</b>	 Chronic health hazard	 Environmental hazard
	 Acute toxicity	
<b>Handling precautions</b>	Protective latex gloves, respiration masks and safety glasses should be worn. Arms and legs should be covered.	
<b>Storage conditions</b>	<ul style="list-style-type: none"> <li>• Use a device to stop the flow in any possible situation (fire, outflow, spillage)</li> <li>• Separate from incompatible substances (fuel, other toxic substances), food and food products</li> <li>• Close properly</li> <li>• Keep in well-ventilated premises</li> </ul>	
<b>For more information</b>	<p>International Chemical Safety Cards  <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011  <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p>The National Focal Point, Official Contact Point and Competent Authority in your country</p>	



### References:

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## PCB

<b>Substance name</b>	Polychlorobiphenyls, Polychlorinated Biphenyls	
<b>Chemical type</b>	Industrial chemical; by-product	
<b>CAS number</b>	1336-36-3	
<b>Harmonized System Code</b>	<u>Pure</u>	<u>Mixture</u>
	-	3824.82
<b>Physical appearance</b>	White to tan, odourless, tasteless, as: - Viscous liquid (mixed liquid) - Waxy solid	
<b>Uses</b>	PCB is widely used in electrical transformers and hydraulic equipment.	
<b>Packaging conditions</b>	Electric transformers Electric condensers Any packaging susceptible of containing liquid or solid	
<b>Pictograms</b>		
	Environmental hazard	Chronic health hazard
<b>Handling precautions</b>	Protective latex gloves, respiration masks and safety glasses should be worn. Arms and legs should be covered.	
<b>Storage conditions</b>	<ul style="list-style-type: none"> <li>• Use a device to stop the flow in any possible situation (fire, outflow, spillage)</li> <li>• Separate from incompatible substances (fuel, other toxic substances), food and food products</li> <li>• Close properly</li> <li>• Keep in well-ventilated premises</li> </ul>	
<b>For more information</b>	<p>International Chemical Safety Cards  <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011  <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p>The National Focal Point, Official Contact Point and Competent Authority in your country</p>	




### References:

Project “development of Customs assistance materials aimed at enhancing the enforcement and national implementation of the Stockholm Convention” in Senegal, COTECNA (May 2006).

International Chemical Safety Cards (ICSCs) at: <http://www.inchem.org>.

Annex VI to Regulation (EC) No 1272/2008 <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>

## PENTACHLOROBENZENE (PeCB)

<b>Substance name</b>	Pentachlorobenzene		
<b>Synonyms/ abbreviations</b>	1,2,3,4,5-pentachlorobenzene; benzene, pentachloro-; quintochlorobenzene; PeCB		
<b>Chemical type</b>	Pesticide; industrial chemical; by-product		
<b>CAS registry number</b>	608-93-5		
<b>Physical Appearance</b>	Colorless to white crystals, with characteristic odour		
<b>Uses</b>	Pentachlorobenzene (PeCB) was used in PCB products, dyestuff carriers, as a fungicide, a flame retardant and a chemical intermediate such as the production of quitozene and it may still be used for this purpose. PeCB is also produced unintentionally during combustion in thermal and industrial processes. It appears as an impurity in products such as solvents or pesticides.		
<b>Harmonized System Code</b>	None		
<b>Pictograms</b>	 <b>Acute toxicity</b>	 <b>Physical hazard</b>	 <b>Environmental hazard</b>
<b>Handling precautions</b>	Protective latex gloves, respiration masks and safety glasses should be worn. Arms and legs should be covered.		
<b>For more information</b>	<p>International Chemical Safety Cards  <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011  <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p>The National Focal Point, Official Contact Point and Competent Authority in your country</p>		

### References:

Risk Profile on Pentachlorobenzene (UNEP/POPS/POPRC.3/20/Add.7), POPs Review Committee, 2007.

International Chemical Safety Cards (ICSCs) at: <http://www.inchem.org>.

Annex VI to Regulation (EC) No 1272/2008 <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>

## Pentachlorophenol and its salts and esters




<b>Chemical name</b>	This chemical is a halogenated aliphatic compound, mainly created as a by-product in the manufacture of chlorinated aliphatic compounds.		
<b>Synonyms/ abbreviations</b>	PCP		
<b>Chemical type</b>	Industrial chemical		
<b>CAS registry number</b>	87-86-5 (for Pentachlorophenol) 131-52-2 (for sodium pentachlorophenate) 27735-64-4 (as monohydrate) 3772-94-9 (for pentachlorophenyl laurate) 1825-21-4 (for pentachloroanisole)		
<b>Uses</b>	PCP has been used as herbicide, insecticide, fungicide, algaecide, disinfectant and as an ingredient in antifouling paint. Some applications were in agricultural seeds, leather, wood preservation, cooling tower water, rope and paper mill system. Its use has been significantly declined due to the high toxicity of PCP and its slow biodegradation.		
<b>Pictograms</b>			
<b>Harmonized System Code</b>	None		
<b>Handling precautions</b>	Protective gloves, protective clothing, face shield and eye protection should be worn along with breathing protection, use ventilation, local exhaust or breathing protection. Do not eat, drink, or smoke during work. Wash hands before eating.		
<b>Storage</b>	<ul style="list-style-type: none"> <li>• Separated from strong oxidants and food and feedstuffs</li> <li>• Provision to contain effluent from fire extinguishing</li> <li>• Keep in well-ventilated room</li> </ul>		
<b>For more information</b>	<p>International Chemical Safety Cards <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011 <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p>The National Focal Point, Official Contact Point and Competent Authority in your country</p>		



## Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds

<b>Chemical name</b>	<p>Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds means the following:</p> <p>(i) Perfluorooctanoic acid (PFOA; CAS No. 335-67-1), including any of its branched isomers;</p> <p>(ii) Its salts;</p> <p>(iii) PFOA-related compounds which, for the purposes of the Convention, are any substances that degrade to PFOA, including any substances (including salts and polymers) having a linear or branched perfluoroheptyl group with the moiety (C7F15)C as one of the structural elements</p>		
<b>Synonyms/ abbreviations</b>	PFOA		
<b>Chemical type</b>	Industrial chemical		
<b>CAS registry number</b>	335-67-1		
<b>Uses</b>	<p>PFOA, its salts and PFOA-related compounds are used widely in the production of fluoroelastomers and fluoropolymers, for the production of non-stick kitchen ware, food processing equipment. PFOA-related compounds, including side-chain fluorinated polymers, are used as surfactants and surface treatment agents in textiles, paper and paints, firefighting foams. PFOA has been detected in industrial waste, stain resistant carpets, carpet cleaning liquids, house dust, microwave popcorn bags, water, food, and Teflon. Unintentional formation of PFOA is created from inadequate incineration of fluoropolymers from municipal solid waste incineration with inappropriate incineration or open burning facilities at moderate temperatures.</p>		
<b>Pictograms</b>			
<b>Harmonized System Code</b>	None		
<b>Handling precautions</b>	<p>Use local exhaust or breathing protection, protective gloves. Protective clothing, wear safety goggles or eye protection in combination with breathing protection if powder. Do not eat, drink, or smoke during work.</p>		
<b>Storage</b>	<ul style="list-style-type: none"> <li>• Store only in original container.</li> <li>• Separated from food and feedstuffs and incompatible materials.</li> <li>•</li> </ul>		
<b>For more information</b>	<p>International Chemical Safety Cards <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011  <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p>The National Focal Point, Official Contact Point and Competent Authority in your country</p>		

## PERFLUOROOCTANE SULFONIC ACID AND ITS SALTS (PFOS) AND PERFLUOROOCTANE SULFONYL FLUORIDE (PFOS-F)

<b>Chemical name</b>	Perfluorooctane Sulfonate (PFOS)		
<b>Synonyms/ abbreviations</b>	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-; 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonic acid; 1-Octanesulfonic acid, heptadecafluoro-; 1-Perfluorooctanesulfonic acid; Heptadecafluoro-1-octanesulfonic acid; Perfluoro-n-octanesulfonic acid; Perfluorooctanesulfonic acid; Perfluorooctylsulfonic acid		
<b>Chemical type</b>	Industrial chemical		
<b>CAS number</b>	<b>PFOS: 1763-23-1 and some of its commercially important salts:</b> Potassium salt: CAS No. 2795-39-3 Diethanolamine salt: CAS No. 70225-14-8 Ammonium salt: CAS No. 29081-56-9 Lithium salt: CAS No. 29457-72-5  <b>PFOS-F: 307-35-7</b>		
<b>Physical appearance</b>	White powder		
<b>Uses</b>	PFOS is both intentionally produced and an unintended degradation product of related anthropogenic chemicals. The current intentional use of PFOS is widespread and includes: electric and electronic parts, fire fighting foam, photo imaging, hydraulic fluids and textiles.		
<b>Harmonized system Code</b>	None		
<b>Handling precautions</b>	Protective latex gloves, respiration masks and safety glasses should be worn. Arms and legs should be covered.		
<b>Pictograms</b>	 Environmental hazard	 Acute toxicity	 Chronic health hazard
<b>For more information</b>	<b>International Chemical Safety Cards</b> <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a>  <b>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011</b> <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a>  <b>The National Focal Point, Official Contact Point and Competent Authority in your country</b>		

### References:

Risk Profile on Perfluorooctane sulfonic acid and its salts (PFOS) and perfluorooctane sulfonyl fluoride (PFOS-F) (UNEP/POPS/POPRC.2/17/Add.5), POPs Review Committee, 2006.



International Chemical Safety Cards (ICSCs) at: <http://www.inchem.org>.

Annex VI to Regulation (EC) No 1272/2008 <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>

## Polychlorinated naphthalenes (PCNs)

<b>Chemical name</b>	Commercial PCNs are mixtures of up to 75 chlorinated naphthalene congeners plus byproducts and are often described by the total fraction of chlorine.		
<b>Synonyms/ abbreviations</b>	PCNs		
<b>Chemical type</b>	Industrial chemical		
<b>CAS registry number</b>	70776-03-3 (chlorinated naphthalenes)		
<b>Uses</b>	PCNs make effective insulating coatings for electrical wires. Others have been used as wood preservatives, as rubber and plastic additives, for capacitor dielectrics and in lubricants.		
<b>Pictograms</b>			
<b>Harmonized System Code</b>	None		
<b>Handling precautions</b>			
<b>Storage</b>			
<b>For more information</b>	<p>International Chemical Safety Cards <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011  <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p>The National Focal Point, Official Contact Point and Competent Authority in your country</p>		

## SHORT-CHAIN CHLORINATED PARAFFINS (SCCPs)

<b>Chemical name</b>	Short-chained chlorinated paraffins	
<b>Synonyms/ abbreviations</b>	SCCP	
<b>Chemical type</b>	Industrial Chemical	
<b>CAS registry number</b>	85535-84-8	
<b>Physical Appearance</b>		
<b>Uses</b>	SCCPs can be used as a plasticizer in rubber, paints, adhesives, flame retardants for plastics as well as an extreme pressure lubricant in metal working fluids.	
<b>Harmonized System Code</b>	3824.9 <sup>2</sup>	
<b>Pictograms<sup>3</sup></b>	 <b>Human health hazard</b>	 <b>Environmental hazard</b>
<b>Handling precautions</b>		
<b>For more information</b>	<p><b>International Chemical Safety Cards</b>  <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p><b>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011</b>  <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p><b>The National Focal Point, Official Contact Point and Competent Authority in your country</b></p>	

### References:

Risk profile on Short-chained chlorinated paraffins (SCCPs). POPs Review Committee 2015; UNEP/POPS/POPRC.11/10/Add.2




International Chemical Safety Cards (ICSCs) at: <http://www.inchem.org>.

Annex VI to Regulation (EC) No 1272/2008 <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>

<sup>2</sup> This is as per the Decision Guidance Document for the Short-chained chlorinated paraffins under the Rotterdam Convention.

<sup>3</sup> This is as per the Decision Guidance Document for the Short-chained chlorinated paraffins under the Rotterdam Convention.

# TOXAPHENE

<b>Substance name</b>	Toxaphene	
<b>Chemical type</b>	Pesticide	
<b>CAS number</b>	8001-35-2	
<b>Harmonized System Code</b>	<u>Pure</u>	<u>Mixture</u>
	-	3808.50
<b>Physical appearance</b>	Waxy solid with a yellow color and with a smell of turpentine. It can also be in a gaseous state.	
<b>Uses</b>	This insecticide is used on cotton, cereal grains, fruits, nuts, and vegetables. It has also been used to control ticks and mites in livestock. Toxaphene was the most widely used pesticide in the US in 1975. Up to 50% of a toxaphene release can persist in the soil for up to 12 years.	
<b>Packaging</b>	Packaging is likely to be: drums, bottles (if substance liquid) or bags, packets (if solid).	
<b>Pictograms</b>		
	Chronic health hazard	Environmental hazard
		Acute toxicity
<b>Handling precautions</b>	Protective latex gloves, respiration masks and safety glasses should be worn. Arms and legs should be covered.	
<b>Storage conditions</b>	Use a device to stop the flow in any possible situation (fire, outflow, spillage) Separate from incompatible substances (fuel, other toxic substances), food and food products Close properly Keep in well-ventilated premises	
<b>For more information</b>	<p>International Chemical Safety Cards  <a href="http://www.inchem.org/pages/icsc.html">http://www.inchem.org/pages/icsc.html</a></p> <p>The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> revised edition 2011  <a href="http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html">http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html</a></p> <p>The National Focal Point, Official Contact Point and Competent Authority in your country</p>	

**References:**

Project “development of Customs assistance materials aimed at enhancing the enforcement and national implementation of the Stockholm Convention” in Senegal, COTECNA (May 2006).

International Chemical Safety Cards (ICSCs) at: <http://www.inchem.org>.

Annex VI to Regulation (EC) No 1272/2008 <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>