






Forest Stewardship Council®



# FSC Lists of highly hazardous pesticides

FSC-POL-30-001a EN

1<sup>st</sup> May 2019

<b>Title:</b>	FSC Lists of highly hazardous pesticides
<b>Document reference code:</b>	FSC-POL-30-001a EN
<b>Approval body:</b>	FSC Board of Directors
<b>Contact for comments:</b>	FSC International Center Performance and Standards Unit Adenauerallee 134, 53113 Bonn, Germany
	 +49-(0)228-36766-0  +49-(0)228-36766-30  <a href="mailto:psu@fsc.org">psu@fsc.org</a>
<p>© 2019 Forest Stewardship Council, A.C. All rights reserved.</p> <p>No part of this work covered by the publisher's copyright may be reproduced or copied in any form or by any means (graphic, electronic or mechanical, including photocopying, recording, recording taping, or information retrieval systems) without the written permission of the publisher.</p> <p>Printed copies of this document are for reference only. Please refer to the electronic copy on the FSC website (<a href="http://www.fsc.org">www.fsc.org</a>) to ensure you are referring to the latest version.</p>	

The Forest Stewardship Council® (FSC) is an independent, not for profit, non-government organization established to promote environmentally appropriate, socially beneficial, and economically viable management of the world's forests.

FSC's vision is that the world's forests meet the social, ecological, and economic rights and needs of the present generation without compromising those of future generations.

## **A Objective**

This addendum lists chemical pesticides that meet the indicators and thresholds set out in Annex 1 of FSC-POL-30-001 V3-0 FSC Pesticides Policy, and therefore are considered to be highly hazardous in the FSC system and classifies them as prohibited, highly restricted or restricted.

## **B Scope**

This addendum is mandatory for FSC certificate holders (and applicants for certification) and FSC-accredited certification bodies.

## Background

FSC takes into account the toxic characteristics for humans and the environment of chemical pesticides, and identifies highly hazardous pesticides using internationally recognized hazard groups and criteria, and the associated indicators and thresholds listed in Annex 1 of the FSC Pesticides Policy.

The hazard groups and criteria are identified by colours in Annex 1 of the Policy:

Hazard group	Number	Criteria
Relevant International Agreements or conventions	1	Relevant International Agreements or conventions
Acute toxicity	2	Acute toxicity to mammals and birds
Chronic toxicity	3	Carcinogenicity
	4	Mutagenicity to mammals
	5	Developmental and reproductive toxicity
	6	Endocrine disrupting chemical (EDC)
Environmental toxicity	7	Acute toxicity to aquatic organisms
	8	Persistence in soil or water and low sorption potential and bio-magnification and bio-accumulation
Dioxins	9	Dioxins (residues or emissions)
Heavy metals	10	Heavy metals

To support Organizations to reduce and phase out the use of chemical pesticides following a stepwise approach, FSC has prioritized the hazard groups and the criteria to identify highly hazardous pesticides (HHPs) and categorized HHPs as follows:

- a) FSC prohibited HHPs.
- b) FSC highly restricted HHPs.
- c) FSC restricted HHPs.

## Part I – Lists of FSC highly hazardous pesticides

### Prohibited list

The FSC list of prohibited HHP includes chemical pesticides:

- are listed or recommended for listing under Annex A (elimination) of the Stockholm Convention on Persistent Organic Pollutants or Annex III of the Rotterdam Convention on the Prior Informed Consent Procedure or listed under the Montreal Protocol on Substances that Deplete the Ozone Layer; or,
- are acutely toxic and can induce cancer (carcinogenic and likely to be carcinogenic); or,
- contain dioxins; or,
- contain heavy metals.

Note: The colored criteria and indicators are considered to classify HHP as FSC prohibited pesticides.

The pesticide active ingredients in groups and their CAS number at listed in the last section of this document.

FSC PROHIBITED LIST 48 pesticides (including heavy metals and dioxins)			INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY					ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS			
ID	CAS number	Pesticide active ingredient	1.1.a	1.1.b	1.1.c	2.1.a	2.1.b	2.1.c	3.1.a	3.1.b	3.1.c	4.1.a	5.1.a	6.1.a	6.1.b	7	8	9	10
			Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (Ia and Ib)(WHO)	Acute toxicity mammals and birds LD50< 200mg/kg body weight	Fatal if inhaled (H330) (GHS)	Carcinogen and probable carc. (1 and 2A) (IARC)	Carcinogen and probable carc (US EPA)	Carcinogen and probable carc. (1A & 1B) (EU GHS)	Mutagen and probable mut. (1A and 1B) (EU GHS)	Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	Category 1 (EDC EU)	Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	Aquatic Toxicity (LC/EC 50 <50 µg/l)	Environmental toxicity (Persistent; Bioaccumulation; Leaching)	Dioxin	Heavy Metal
1	542-75-6	1,3-dichloropropene					•			•									

**FSC PROHIBITED LIST**  
48 pesticides (including heavy metals and dioxins)

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS		
			1.1.a	1.1.b	1.1.c	2.1.a	2.1.b	2.1.c	3.1.a	3.1.b	3.1.c	4.1.a	5.1.a	6.1.a	6.1.b	7	8	9	10
			Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (la and lb)(WHO)	Acute toxicity mammals and birds LD50< 200mg/kg body weight	Fatal if inhaled (H330) (GHS)	Carcinogen and probable carc. (1 and 2A) (IARC)	Carcinogen and probable carc (US EPA)	Carcinogen and probable carc. (1A &1B) (EU GHS)	Mutagen and probable mut. (1A and 1B) (EU GHS)	Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	Category 1 (EDC EU)	Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	Aquatic Toxicity (LC/EC 50 <50 µg/l)	Environmental toxicity (Persistent; Bioaccumulation; Leaching)	Dioxin	Heavy Metal
2	34256-82-1	Acetochlor		REC <sup>1</sup>										•	•				
3	15972-60-8	Alachlor		•											•				
4	116-06-3	Aldicarb		•		•	•	•											
5	319-84-6	Alpha hexachlorocyclohexane	•																
6	Group	Arsenic and its compounds							•										•
7	86-50-0	Azinphos-methyl		•		•	•	•								•			
8	319-85-7	Beta-hexachlorocyclohexane	•																
9	Group	Cadmium compounds																	•
10	2425-06-1	Captafol		•		•			•	•	•								
11	1563-66-2	Carbofuran		•		•	•	•								•			
12	55285-14-8	Carbosulfan		REC			•	•								•			
13	2439-01-2	Chinomethionat					•			•						•			
14	57-74-9	Chlordane	•	•			•			•				•					
15	1897-45-6	Chlorothalonil						•		•						•			
16	50-29-3	DDT	• <sup>2</sup>	•			•			•					•	•			

<sup>1</sup> REC = Recommended for listing under the relevant convention.

<sup>2</sup> DDT is listed under Annex B (restriction)

**FSC PROHIBITED LIST**  
48 pesticides (including heavy metals and dioxins)

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS		
			1.1.a	1.1.b	1.1.c	2.1.a	2.1.b	2.1.c	3.1.a	3.1.b	3.1.c	4.1.a	5.1.a	6.1.a	6.1.b	7	8	9	10
			Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (la and lb)(WHO)	Acute toxicity mammals and birds LD50< 200mg/kg body weight	Fatal if inhaled (H330) (GHS)	Carcinogen and probable carc. (1 and 2A) (IARC)	Carcinogen and probable carc (US EPA)	Carcinogen and probable carc. (1A &1B) (EU GHS)	Mutagen and probable mut. (1A and 1B) (EU GHS)	Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	Category 1 (EDC EU)	Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	Aquatic Toxicity (LC/EC 50 <50 µg/l)	Environmental toxicity (Persistent; Bioaccumulation; Leaching)	Dioxin	Heavy Metal
17	333-41-5	Diazinon					•		•						•				
18	115-32-2	Dicofol	REC																
19	Group	DNOC and its salts		•		•	•	•											
20	106-93-4	Ethylene dibromide; EDB		•			•		•	•				•					
21	115-29-7	Endosulfan	•	•			•	•							•				
22	13194-48-4	Ethoprophos				•	•	•		•									
23	56-38-2	Parathion; Parathion-ethyl		•		•	•	•							•				
24	107-06-2	Ethylene dichloride; ;1,2-Dichloroethane		•						•									
25	75-21-8	Ethylene oxide		•						•	•								
26	55-38-9	Fenthion		REC			•								•				
27	640-19-7	Fluoroacetamide		•		•	•												
28	98-01-1	Furfural					•			•									
29	608-73-1	HCH (mixed isomers)		•						•				•					
30	118-74-1	Hexachlorobenzene	•	•		•				•	•			•	•				
31	58-89-9	Lindane; gamma-HCH	•	•			•							•	•				
32	Group	Mercury and its compounds																	•
33	74-83-9	Methyl bromide			•		•												
34	556-61-6	Methyl isothiocyanate; MITC					•			•									

**FSC PROHIBITED LIST**  
48 pesticides (including heavy metals and dioxins)

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS		
			1.1.a	1.1.b	1.1.c	2.1.a	2.1.b	2.1.c	3.1.a	3.1.b	3.1.c	4.1.a	5.1.a	6.1.a	6.1.b	7	8	9	10
			Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (la and lb)(WHO)	Acute toxicity mammals and birds LD50< 200mg/kg body weight	Fatal if inhaled (H330) (GHS)	Carcinogen and probable carc. (1 and 2A) (IARC)	Carcinogen and probable carc (US EPA)	Carcinogen and probable carc. (1A &1B) (EU GHS)	Mutagen and probable mut. (1A and 1B) (EU GHS)	Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	Category 1 (EDC EU)	Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	Aquatic Toxicity (LC/EC 50 <50 µg/l)	Environmental toxicity (Persistent; Bioaccumulation; Leaching)	Dioxin	Heavy Metal
35	6923-22-4	Monocrotophos		•		•	•	•							•				
36	4685-14-7; 1910-42-5	Paraquat dichloride		REC			•	•											
37	298-00-0	Parathion-methyl		SHP F <sup>3</sup>		•	•	•							•				
38	87-86-5	Pentachlorophenol; PCP and its salts and esters		•		•	•	•		•				•		•			
39	298-02-2	Phorate		REC		•	•								•				
40	13171-21-6; 297-99-4	Phosphamidon		•		•	•								•				
41	23103-98-2	Pirimicarb					•			•					•				
42	1918-16-7	Propachlor					•			•									
43	114-26-1	Propoxur					•			•									
44	82-68-8	Quintozene; PCNB															•		
45	112281-77-3	Tetraconazole					•			•									
46	111988-49-9	Thiacloprid					•			•		•							
47	59669-26-0	Thiodicarb					•			•					•				
48	52-68-6	Trichlorfon		•									•	•					

<sup>3</sup> SHPF = Severely hazardous pesticide formulation



### Active ingredients in groups in the prohibited list

Group	CAS Number	Pesticide active ingredient
Arsenic and its compounds	1303-28-2	Arsenic pentoxide
Arsenic and its compounds	12044-50-7	Arsenic pentoxide hydrate
Arsenic and its compounds	1327-53-3	Arsenic trioxide
Arsenic and its compounds	124-65-2	Cacolydate; sodium dimethylarsinate
Arsenic and its compounds	7778-44-1	Calcium arsenate
Arsenic and its compounds	75-60-5	Chromated copper arsenate; CCA
Arsenic and its compounds	7778-41-8	Copper arsenate
Arsenic and its compounds	144-21-8	DSMA; Disodium methanearsonate
Arsenic and its compounds	7784-40-9	Lead arsenate
Arsenic and its compounds	124-58-3	MAA, methylarsonic acid
Arsenic and its compounds	2163-80-6	MSMA
Arsenic and its compounds	5902-95-4	MSMA, calcium salt
Arsenic and its compounds	12002-03-8	Paris Green
Arsenic and its compounds	13464-38-5	Sodium arsenate
Arsenic and its compounds	7784-46-5	Sodium arsenite

Group	CAS Number	Pesticide active ingredient
Cadmium compounds	22750-54-5	Cadmium chlorate
Cadmium compounds	1306-23-6	Cadmium sulfide

Group	CAS Number	Pesticide active ingredient
DNOC and its salts	534-52-1	DNOC
DNOC and its salts	2980-64-5	DNOC, ammonium salt
DNOC and its salts	5787-96-2	DNOC, potassium salt
DNOC and its salts	2312-76-7	DNOC, sodium salt

Group	CAS Number	Pesticide active ingredient
Mercury and its compounds	4665-55-8	2-Acetoxymercuricethanol phenylmercuric lactate

<b>Group</b>	<b>CAS Number</b>	<b>Pesticide active ingredient</b>
Mercury and its compounds	1319-86-4	Chloromethoxypropylmercuric acetate; CPMA
Mercury and its compounds	502-39-6	cyanomethylmercuricguanidine
Mercury and its compounds	27236-65-3	Diphenylmercurydodecenylsuccinate; PMDS
Mercury and its compounds	17140-73-7	hydroxymercuri-o-nitrophenol
Mercury and its compounds	1600-27-7	mercuric acetate
Mercury and its compounds	7487-94-7	mercuric chloride
Mercury and its compounds	21908-53-2	Mercuric oxide
Mercury and its compounds	7546-30-7	mercurous chloride
Mercury and its compounds	7439-97-6	mercury
Mercury and its compounds	1336-96-5	mercury naphthenate
Mercury and its compounds	1191-80-6	mercury oleate
Mercury and its compounds	14024-55-6	mercury pentanedione
Mercury and its compounds	589-66-9	mercury phenate
Mercury and its compounds	151-38-2	Methoxyethylmercuric acetate
Mercury and its compounds	123-88-6	Methoxyethylmercuric chloride
Mercury and its compounds	2597-95-7	methylmercury 2,3 dihydroxypropyl mercaptide
Mercury and its compounds	86-85-1	methylmercury 8-quinolinolate
Mercury and its compounds	108-07-6	methylmercury acetate
Mercury and its compounds	3626-13-9	methylmercury benzoate
Mercury and its compounds	1184-57-2	methylmercury hydroxide
Mercury and its compounds	2591-97-9	methylmercury nitrite
Mercury and its compounds	5903-10-6	methylmercury propionate
Mercury and its compounds	2279-64-3	N-phenylmercuric urea
Mercury and its compounds	54-64-8	phenylethylmercuric salicylate
Mercury and its compounds	53404-67-4	phenylmercuric ammonium acetate
Mercury and its compounds	53404-68-5	phenylmercuric ammonium propionate
Mercury and its compounds	102-98-7	phenylmercuric borate
Mercury and its compounds	53404-69-6	phenylmercuric carbonate
Mercury and its compounds	100-56-1	phenylmercuric chloride
Mercury and its compounds	32407-99-1	phenylmercuric dimethyldithiocarbamate
Mercury and its compounds	22894-47-9	phenylmercuric formamide

<b>Group</b>	<b>CAS Number</b>	<b>Pesticide active ingredient</b>
Mercury and its compounds	100-57-2	phenylmercuric hydroxide
Mercury and its compounds	122-64-5	phenylmercuric lactate
Mercury and its compounds	unknown	phenylmercuric laurylmercaptide
Mercury and its compounds	5822-97-9	phenylmercuric monoethanol ammonium acetate
Mercury and its compounds	53404-70-9	phenylmercuric monoethanol ammonium lactate
Mercury and its compounds	31632-68-5	phenylmercuric napthenate
Mercury and its compounds	55-68-5	phenylmercuric nitrate
Mercury and its compounds	104-68-9	Phenylmercuric oleate; PMO
Mercury and its compounds	103-27-5	phenylmercuric propionate
Mercury and its compounds	28086-13-7	phenylmercuric salicylate
Mercury and its compounds	16751-55-6	phenylmercuric thiocyanate
Mercury and its compounds	23319-66-6	phenylmercuric threthanolammonium lactate
Mercury and its compounds	13302-00-6	phenylmercuric-2-ethylhexonate
Mercury and its compounds	26114-17-0	phenylmercuric-8-quinolinate
Mercury and its compounds	62-38-4	Phenylmercury acetate; PMA

## Highly restricted list

The FSC list of highly restricted HHP includes any chemical pesticide belonging to 2 or 3 out of 3 hazard groups. This means that the active ingredients that are included in this list present:

- Acute toxicity AND chronic toxicity AND environmental toxicity, OR
- Acute toxicity AND chronic toxicity, OR
- Acute toxicity AND environmental toxicity, OR
- Chronic toxicity AND environmental toxicity

Note: The colored criteria and indicators are considered to classify HHPs as highly restricted.

FSC HIGHLY RESTRICTED LIST 120 pesticides			INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS		
ID	CAS number	Pesticide active ingredient	1.1.a	1.1.b	1.1.c	2.1.a	2.1.b	2.1.c	3.1.a	3.1.b	3.1.c	4.1.a	5.1.a	6.1.a	6.1.b	7	8	9	10
			Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (Ia and Ib)(WHO)	Acute toxicity mammals and birds LD50< 200mg/kg body weight	Fatal if inhaled (H330) (GHS)	Carcinogen and probable carc. (1 and 2A) (IARC)	Carcinogen and probable carc (US EPA)	Carcinogen and probable carc. (1A &1B) (EU GHS)	Mutagen and probable mut. (1A and 1B) (EU GHS)	Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	Category 1 (EDC EU)	Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	Aquatic Toxicity (LC/EC 50 <50 µg/l)	Environmental toxicity (Persistent; Bioaccumulation; Leaching)	Dioxin	Heavy Metal
1	71751-41-2	Abamectin					•	•								•			
2	107-02-8	Acrolein				•	•	•								•			
3	67375-30-8	Alpha-cypermethrin					•									•			
4	20859-73-8	Aluminum phosphide					•	•								•			
5	35575-96-3	Azamethiphos					•									•			
6	2642-71-9	Azinphos-ethyl				•	•									•			
7	41083-11-8	Azocyclotin					•	•								•			

FSC HIGHLY RESTRICTED LIST 120 pesticides			INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS		
			1.1.a	1.1.b	1.1.c	2.1.a	2.1.b	2.1.c	3.1.a	3.1.b	3.1.c	4.1.a	5.1.a	6.1.a	6.1.b	7	8	9	10
ID	CAS number	Pesticide active ingredient	Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (Ia and Ib)(WHO)	Acute toxicity mammals and birds LD50< 200mg/kg body weight	Fatal if inhaled (H330) (GHS)	Carcinogen and probable carc. (1 and 2A) (IARC)	Carcinogen and probable carc (US EPA)	Carcinogen and probable carc. (1A &1B) (EU GHS)	Mutagen and probable mut. (1A and 1B) (EU GHS)	Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	Category 1 (EDC EU)	Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	Aquatic Toxicity (LC/EC 50 <50 µg/l)	Environmental toxicity (Persistent; Bioaccumulation; Leaching)	Dioxin	Heavy Metal
8	22781-23-3	Bendiocarb					•									•			
9	82560-54-1	Benfuracarb					•									•			
10	68359-37-5b	Beta-cyfluthrin; Cyfluthrin				•	•	•								•			
11	65731-84-2	Beta-Cypermethrin					•									•			
12	82657-04-3	Bifenthrin					•							•		•			
13	56073-10-0	Brodifacoum				•	•	•					•			•			
14	28772-56-7	Bromadiolone				•	•	•					•			•			
15	63333-35-7	Bromethalin				•	•									•			
16	1689-84-5	Bromoxynil					•	•								•			
17	1689-99-2	Bromoxynil octanoate					•									•			
18	3861-41-4	Bromoxynil butyrate					•	•								•			
19	95465-99-9	Cadusafos				•	•									•			
20	1305-99-3	Calcium phosphide					•	•								•			
21	63-25-2	Carbaryl								•				•		•			
22	15263-52-2	Cartap hydrochloride					•									•			
23	54593-83-8	Chlorethoxyfos				•	•									•			
24	122453-73-0	Chlorfenapyr					•									•			
25	470-90-6	Chlorfenvinphos				•	•									•			
26	3691-35-8	Chlorophacinone				•	•	•				•				•			

FSC HIGHLY RESTRICTED LIST 120 pesticides			INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS		
			1.1.a	1.1.b	1.1.c	2.1.a	2.1.b	2.1.c	3.1.a	3.1.b	3.1.c	4.1.a	5.1.a	6.1.a	6.1.b	7	8	9	10
ID	CAS number	Pesticide active ingredient	Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (Ia and Ib)(WHO)	Acute toxicity mammals and birds LD50< 200mg/kg body weight	Fatal if inhaled (H330) (GHS)	Carcinogen and probable carc. (1 and 2A) (IARC)	Carcinogen and probable carc (US EPA)	Carcinogen and probable carc. (1A &1B) (EU GHS)	Mutagen and probable mut. (1A and 1B) (EU GHS)	Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	Category 1 (EDC EU)	Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	Aquatic Toxicity (LC/EC 50 <50 µg/l)	Environmental toxicity (Persistent; Bioaccumulation; Leaching)	Dioxin	Heavy Metal
27	76-06-2	Chloropicrin						•								•			
28	2921-88-2	Chlorpyrifos					•									•			
29	1333-22-8	Copper sulfate (tribasic); copper hydroxide sulfate					•									•			
30	20427-59-2	Copper hydroxide; cupric hydroxide						•								•			
31	56-72-4	Coumaphos				•	•									•			
32	5836-29-3	Coumatetralyl				•	•	•					•			•			
33	68359-37-5	Cyfluthrin				•	•									•			
34	68085-85-8	Cyhalothrin					•									•			
35	52315-07-8	Cypermethrin				•	•									•			
36	94361-06-5	Cyproconazole					•					•				•			
37	52918-63-5	Deltamethrin					•								•	•			
38	919-86-8	Demeton-S-methyl				•	•									•			
39	62-73-7	Dichlorvos; DDVP				•	•	•								•			
40	141-66-2	Dicrotophos				•	•									•			
41	56073-07-5	Difenacoum				•	•	•				•				•			
42	104653-34-1	Difethialone				•	•	•				•				•			
43	2274-67-1	Dimethylvinphos					•									•			
44	149961-52-4	Dimoxystrobin												•		•			

FSC HIGHLY RESTRICTED LIST 120 pesticides			INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS		
			1.1.a	1.1.b	1.1.c	2.1.a	2.1.b	2.1.c	3.1.a	3.1.b	3.1.c	4.1.a	5.1.a	6.1.a	6.1.b	7	8	9	10
ID	CAS number	Pesticide active ingredient	Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (Ia and Ib)(WHO)	Acute toxicity mammals and birds LD50< 200mg/kg body weight	Fatal if inhaled (H330) (GHS)	Carcinogen and probable carc. (1 and 2A) (IARC)	Carcinogen and probable carc (US EPA)	Carcinogen and probable carc. (1A &1B) (EU GHS)	Mutagen and probable mut. (1A and 1B) (EU GHS)	Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	Category 1 (EDC EU)	Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	Aquatic Toxicity (LC/EC 50 <50 µg/l)	Environmental toxicity (Persistent; Bioaccumulation; Leaching)	Dioxin	Heavy Metal
45	973-21-7	Dinobuton					•									•			
46	39300-45-3	Dinocap										•				•			
47	1420-07-1	Dinoterb				•	•					•				•			
48	85-00-7	Diquat dibromide					•	•								•			
49	298-04-4	Disulfoton				•	•									•			
50	17109-49-8	Edifenphos				•	•									•			
51	155569-91-8	Emamectin benzoate					•									•			
52	2104-64-5	EPN				•	•									•			
53	66230-04-4	Esfenvalerate					•									•			
54	563-12-2	Ethion					•									•			
55	22224-92-6	Fenamiphos				•	•	•								•			
56	120928-09-8	Fenazaquin					•									•			
57	13356-08-6	Fenbutatin oxide						•								•			
58	122-14-5	Fenitrothion					•								•	•			
59	39515-41-8	Fenpropathrin					•	•								•			
60	134098-61-6	Fenpyroximate						•								•			
61	900-95-8	Fentin acetate					•	•						•	•	•			
62	76-87-9	Fentin hydroxide					•	•						•		•			
63	90035-08-8	Flocoumafen				•	•	•				•							

FSC HIGHLY RESTRICTED LIST 120 pesticides			INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS		
			1.1.a	1.1.b	1.1.c	2.1.a	2.1.b	2.1.c	3.1.a	3.1.b	3.1.c	4.1.a	5.1.a	6.1.a	6.1.b	7	8	9	10
ID	CAS number	Pesticide active ingredient	Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (Ia and Ib)(WHO)	Acute toxicity mammals and birds LD50< 200mg/kg body weight	Fatal if inhaled (H330) (GHS)	Carcinogen and probable carc. (1 and 2A) (IARC)	Carcinogen and probable carc (US EPA)	Carcinogen and probable carc. (1A &1B) (EU GHS)	Mutagen and probable mut. (1A and 1B) (EU GHS)	Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	Category 1 (EDC EU)	Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	Aquatic Toxicity (LC/EC 50 <50 µg/l)	Environmental toxicity (Persistent; Bioaccumulation; Leaching)	Dioxin	Heavy Metal
64	70124-77-5	Flucythrinate				•	•									•			
65	117337-19-6	Fluthiacet-methyl								•						•			
66	22259-30-9	Formetanate				•	•	•								•			
67	23422-53-9	Formetanate hydrochloride					•	•								•			
68	65907-30-4	Furathiocarb				•	•	•								•			
69	76703-62-3	gamma-cyhalothrin					•									•			
70	111872-58-3	Halfenprox					•									•			
71	23560-59-0	Heptenophos				•	•									•			
72	1689-83-4	loxynil					•								•				
73	3861-47-0	loxynil octanoate					•									•			
74	2631-40-5	Isoproc carb					•									•			
75	881685-58-1	Isopyrazam								•						•			
76	18854-01-8	Isoxathion				•	•									•			
77	91465-08-6	lambda-Cyhalothrin					•	•							•	•			
78	12057-74-8	Magnesium phosphide					•	•								•			
79	121-75-5	Malathion							•							•			
80	12427-38-2	Maneb								•					•	•			
81	2595-54-2	Mecarbam				•	•									•			
82	950-37-8	Methidathion				•	•									•			



FSC HIGHLY RESTRICTED LIST 120 pesticides			INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS		
			1.1.a	1.1.b	1.1.c	2.1.a	2.1.b	2.1.c	3.1.a	3.1.b	3.1.c	4.1.a	5.1.a	6.1.a	6.1.b	7	8	9	10
ID	CAS number	Pesticide active ingredient	Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (Ia and Ib)(WHO)	Acute toxicity mammals and birds LD50< 200mg/kg body weight	Fatal if inhaled (H330) (GHS)	Carcinogen and probable carc. (1 and 2A) (IARC)	Carcinogen and probable carc (US EPA)	Carcinogen and probable carc. (1A &1B) (EU GHS)	Mutagen and probable mut. (1A and 1B) (EU GHS)	Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	Category 1 (EDC EU)	Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	Aquatic Toxicity (LC/EC 50 <50 µg/l)	Environmental toxicity (Persistent; Bioaccumulation; Leaching)	Dioxin	Heavy Metal
83	2032-65-7	Methiocarb				•	•									•			
84	16752-77-5	Methomyl				•	•									•			
85	72-43-5	Methoxychlor													•	•			
86	21087-64-9	Metribuzin					•								•				
87	7786-34-7	Mevinphos				•	•									•			
88	300-76-5	Naled					•									•			
89	1113-02-6	Omethoate				•	•								•	•			
90	52645-53-1	Permethrin							•							•			
91	2597-03-7	Phenthoate					•									•			
92	2310-17-0	Phosalone					•									•			
93	732-11-6	Phosmet					•									•			
94	7803-51-2	Phosphine						•								•			
95	14816-18-3	Phoxim					•									•			
96	2312-35-8	Propargite							•							•			
97	31218-83-4	Propetamphos				•	•									•			
98	34643-46-4	Prothiofos					•									•			
99	77458-01-6	Pyraclufos					•									•			
100	13457-18-6	Pyrazophos					•									•			
101	96489-71-3	Pyridaben					•									•			

FSC HIGHLY RESTRICTED LIST 120 pesticides			INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS		
			1.1.a	1.1.b	1.1.c	2.1.a	2.1.b	2.1.c	3.1.a	3.1.b	3.1.c	4.1.a	5.1.a	6.1.a	6.1.b	7	8	9	10
ID	CAS number	Pesticide active ingredient	Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (Ia and Ib)(WHO)	Acute toxicity mammals and birds LD50< 200mg/kg body weight	Fatal if inhaled (H330) (GHS)	Carcinogen and probable carc. (1 and 2A) (IARC)	Carcinogen and probable carc (US EPA)	Carcinogen and probable carc. (1A &1B) (EU GHS)	Mutagen and probable mut. (1A and 1B) (EU GHS)	Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	Category 1 (EDC EU)	Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	Aquatic Toxicity (LC/EC 50 <50 µg/l)	Environmental toxicity (Persistent; Bioaccumulation; Leaching)	Dioxin	Heavy Metal
102	13593-03-8	Quinalphos					•								•	•			
103	10453-86-8	Resmethrin								•					•	•			
104	148477-71-8	Spirodiclofen								•						•			
105	3689-24-5	Sulfotep				•	•									•			
106	21564-17-0	TCMTB						•								•			
107	96182-53-5	Tebupirimfos				•	•									•			
108	79538-32-2	Tefluthrin				•	•	•								•			
109	13071-79-9	Terbufos				•	•									•			
110	22248-79-9	Tetrachlorvinphos								•						•			
111	137-26-8	Thiram													•	•			
112	129558-76-5	Tolfenpyrad					•									•			
113	731-27-1	Tolyfluanid								•						•			
114	66841-25-6	Tralomethrin					•									•			
115	112143-82-5	Triazamate					•									•			
116	24017-47-8	Triazophos				•	•									•			
117	81-81-2	Warfarin				•	•	•				•				•			
118	52315-07-8z	zeta-Cypermethrin				•	•									•			
119	1314-84-7	Zinc phosphide				•	•	•								•			
120	137-30-4	Ziram					•	•			•					•			

## Restricted list

The FSC list of restricted HHP includes any chemical pesticide belonging to 1 out of 3 hazard groups. It means that in this list are included active ingredients that present:

- Acute toxicity OR chronic toxicity OR environmental toxicity

Note: The colored criteria and indicators are used to classify HHPs as restricted.

The pesticide active ingredients in groups and their CAS number at listed in the last section of this document.

FSC RESTRICTED LIST 221 pesticides			INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY					ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS			
			1.1.a	1.1.b	1.1.c	2.1.a	2.1.b	2.1.c	3.1.a	3.1.b	3.1.c	4.1.a	5.1.a	6.1.a	6.1.b	7	8	9	10
ID	CAS number	Pesticide active ingredient	Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (Ia and Ib)(WHO)	Acute toxicity mammals and birds LD50< 200mg/kg body weight	Fatal if inhaled (H330) (GHS)	Carcinogen and probable carc. (1 and 2A) (IARC)	Carcinogen and probable carc (US EPA)	Carcinogen and probable carc. (1A & 1B) (EU GHS)	Mutagen and probable mut. (1A and 1B) (EU GHS)	Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	Category 1 (EDC EU)	Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	Aquatic Toxicity (LC/EC 50 <50 µg/l)	Environmental toxicity (Persistent; Bioaccumulation; Leaching)	Dioxin	Heavy Metal
1	94-75-7	2,4-D					•												
2	94-82-6	2,4-DB													•				
3	504-24-5	4-aminopyridine					•												
4	133-32-4	4-Indol-3-ylbutyric acid					•												
5	148-24-3	8-hydroxyquinoline											•						
6	30560-19-1	Acephate					•												
7	57960-19-7	Acequinocyl														•			
8	135410-20-7	Acetamiprid					•												
9	101007-06-1	Acrinathrin														•			
10	96-24-2	Alpha-chlorohydrin				•	•												

FSC RESTRICTED LIST  
221 pesticides

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS	
			1.1.a Stockholm (POP)	1.1.b Rotterdam (PIC)	1.1.c Montreal	2.1.a Extremely or highly hazardous (Ia and Ib)(WHO)	2.1.b Acute toxicity mammals and birds LD50< 200mg/kg body weight	2.1.c Fatal if inhaled (H330) (GHS)	3.1.a Carcinogen and probable carc. (1 and 2A) (IARC)	3.1.b Carcinogen and probable carc (US EPA)	3.1.c Carcinogen and probable carc. (1A & 1B) (EU GHS)	4.1.a Mutagen and probable mut. (1A and 1B) (EU GHS)	5.1.a Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	6.1.a Category 1 (EDC EU)	6.1.b Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	7 Aquatic Toxicity (LC/EC 50 <50 µg/l)	8 Environmental toxicity (Persistent; Bioaccumulation; Leaching)	9 Dioxin
11	348635-87-0	Amisulbrom													•			
12	33089-61-1	Amitraz													•			
13	61-82-5	Amitrole											•					
14	90640-80-5	Anthracene oil								•								
15	84-65-1	Anthraquinone							•	•								
16	1912-24-9	Atrazine											•					
17	60207-31-0	Azaconazole					•											
18	68049-83-2	Azafenidin										•						
19	17804-35-2	Benomyl									•	•						
20	177406-68-7	Benthiavalicarb-isopropyl								•								
21	584-79-2_b	Bioallethrin													•			
22	28434-01-7	Bioresmethrin													•			
23	2079-00-7	Blasticidin-S				•												
24	Group	Borax; Borate salts																
25	10043-35-3	Boric acid											•					
26	56634-95-8	Bromoxynil heptanoate													•			
27	2961-68-4	Bromoxynil-potassium					•	•										
28	52-51-7	Bronopol					•											
29	23184-66-9	Butachlor							•									
30	34681-10-2	Butocarboxim				•	•											

FSC RESTRICTED LIST  
221 pesticides

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS	
			1.1.a Stockholm (POP)	1.1.b Rotterdam (PIC)	1.1.c Montreal	2.1.a Extremely or highly hazardous (Ia and Ib)(WHO)	2.1.b Acute toxicity mammals and birds LD50< 200mg/kg body weight	2.1.c Fatal if inhaled (H330) (GHS)	3.1.a Carcinogen and probable carc. (1 and 2A) (IARC)	3.1.b Carcinogen and probable carc (US EPA)	3.1.c Carcinogen and probable carc. (1A & 1B) (EU GHS)	4.1.a Mutagen and probable mut. (1A and 1B) (EU GHS)	5.1.a Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	6.1.a Category 1 (EDC EU)	6.1.b Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	7 Aquatic Toxicity (LC/EC 50 <50 µg/l)	8 Environmental toxicity (Persistent; Bioaccumulation; Leaching)	9 Dioxin
31	34681-23-7	Butoxycarboxim				•												
32	592-01-8	Calcium cyanide				•	•											
33	133-06-2	Captan												•				
34	10605-21-7	Carbendazim							•	•								
35	16118-49-3	Carbetamide								•								
36	15879-93-3	Chloralose					•											
37	50008-45-7	Chlorantraniliprole												•				
38	71422-67-8	Chlorfluazuron												•				
39	24934-91-6	Chlormephos				•	•											
40	79-11-8	Chloroacetic acid					•											
41	67-66-3	Chloroform											•					
42	15545-48-9	Chlorotoluron											•					
43	5598-13-0	Chlorpyrifos-methyl												•				
44	67-97-0	Cholecalciferol					•	•										
45	74115-24-5	Clofentezine												•				
46	120-32-1	Chlorophene											•					
47	65996-82-9	Coal tar oils						•	•									
48	1332-40-7	Copper oxychloride					•											
49	8001-58-9	Creosote						•										
50	1317-39-1	Cuprous oxide												•				

FSC RESTRICTED LIST  
221 pesticides

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS	
			1.1.a Stockholm (POP)	1.1.b Rotterdam (PIC)	1.1.c Montreal	2.1.a Extremely or highly hazardous (Ia and Ib)(WHO)	2.1.b Acute toxicity mammals and birds LD50< 200mg/kg body weight	2.1.c Fatal if inhaled (H330) (GHS)	3.1.a Carcinogen and probable carc. (1 and 2A) (IARC)	3.1.b Carcinogen and probable carc (US EPA)	3.1.c Carcinogen and probable carc. (1A & 1B) (EU GHS)	4.1.a Mutagen and probable mut. (1A and 1B) (EU GHS)	5.1.a Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	6.1.a Category 1 (EDC EU)	6.1.b Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	7 Aquatic Toxicity (LC/EC 50 <50 µg/l)	8 Environmental toxicity (Persistent; Bioaccumulation; Leaching)	9 Dioxin
51	21725-46-2	Cyanazine					•											
52	560121-52-0	Cyenoptyrafen												•				
53	13121-70-5	Cyhexatin												•				
54	39515-40-7	Cyphenothrin												•				
55	121552-61-2	Cyprodinil												•				
56	1596-84-5	Daminozide							•									
57	80060-09-9	Diafenthiuron												•				
58	1085-98-9	Dichlofluanid												•				
59	51338-27-3	Diclofop-methyl							•									
60	35367-38-5	Diflubenzuron												•				
61	130339-07-0	Diflumentorim												•				
62	271241-14-6	Dimefluthrin												•				
63	22936-75-0	Dimethametryn													•			
64	60-51-5	Dimethoate					•											
65	624-92-0	Dimethyl disulfide					•											
66	82-66-6	Diphacinone				•	•											
67	4032-26-2	Diquat dichloride																
68	330-54-1	Diuron							•									
69	2439-10-3	Dodine												•				
70	297-99-4	E-Phosphamidon				•												

FSC RESTRICTED LIST  
221 pesticides

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS		
			1.1.a	1.1.b	1.1.c	2.1.a	2.1.b	2.1.c	3.1.a	3.1.b	3.1.c	4.1.a	5.1.a	6.1.a	6.1.b	7	8	9	10
			Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (Ia and Ib)(WHO)	Acute toxicity mammals and birds LD50< 200mg/kg body weight	Fatal if inhaled (H330) (GHS)	Carcinogen and probable carc. (1 and 2A) (IARC)	Carcinogen and probable carc (US EPA)	Carcinogen and probable carc. (1A & 1B) (EU GHS)	Mutagen and probable mut. (1A and 1B) (EU GHS)	Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	Category 1 (EDC EU)	Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	Aquatic Toxicity (LC/EC 50 <50 µg/l)	Environmental toxicity (Persistent; Bioaccumulation; Leaching)	Dioxin	Heavy Metal
71	54406-48-3	Empenthrin														•			
72	145-73-3	Endothal					•												
73	2164-07-0	Endothal-dipotassium					•												
74	106-89-8	Epichlorohydrin								•									
75	133855-98-8; 106325-08-0	Epoxiconazole								•				•					
76	50-14-6	Ergocalciferol					•	•											
77	29973-13-5	Ethiofencarb				•	•												
78	96-45-7	Ethylene thiourea										•							
79	80844-07-1	Etofenprox														•			
80	153233-91-1	Etoxazole														•			
81	2593-15-9	Etridiazole								•									
82	131807-57-3	Famoxadone														•			
83	52-85-7	Famphur				•	•												
84	60168-88-9	Fenarimol													•				
85	103112-35-2	Fenclorazole-ethyl								•									
86	3766-81-2	Fenobucarb														•			
87	72490-01-8	Fenoxycarb								•									
88	517875-34-2	Fenpicoxamid														•			
89	668-34-8	Fentin					•												

FSC RESTRICTED LIST  
221 pesticides

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS	
			1.1.a Stockholm (POP)	1.1.b Rotterdam (PIC)	1.1.c Montreal	2.1.a Extremely or highly hazardous (Ia and Ib)(WHO)	2.1.b Acute toxicity mammals and birds LD50< 200mg/kg body weight	2.1.c Fatal if inhaled (H330) (GHS)	3.1.a Carcinogen and probable carc. (1 and 2A) (IARC)	3.1.b Carcinogen and probable carc (US EPA)	3.1.c Carcinogen and probable carc. (1A & 1B) (EU GHS)	4.1.a Mutagen and probable mut. (1A and 1B) (EU GHS)	5.1.a Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	6.1.a Category 1 (EDC EU)	6.1.b Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	7 Aquatic Toxicity (LC/EC 50 <50 µg/l)	8 Environmental toxicity (Persistent; Bioaccumulation; Leaching)	9 Dioxin
90	51630-58-1	Fenvalerate													•			
91	120068-37-3	Fipronil					•											
92	69806-50-4	Fluazifop-butyl																
93	79622-59-6	Fluazinam																
94	174514-07-9	Fluazolate																
95	33245-39-5	Fluchloralin																
96	101463-69-8	Flufenoxuron																
97	62924-70-3	Flumetralin																
98	103361-09-7	Flumioxazin																
99	136426-54-5	Fluquinconazole					•											
100	85509-19-9	Flusilazole																
101	106917-52-6	Flusulfamide					•											
102	133-07-3	Folpet							•									
103	68157-60-8	Forchlorfenuron																
104	50-00-0	Formaldehyde						•	•	•								
105	98886-44-3	Fosthiazate					•											
106	121776-33-8	Furilazole							•									
107	77182-82-2	Glufosinate-ammonium																
108	Group	Glyphosate and its salts						•										
109	108173-90-6	Guazatine																



FSC RESTRICTED LIST  
221 pesticides

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS		
			1.1.a	1.1.b	1.1.c	2.1.a	2.1.b	2.1.c	3.1.a	3.1.b	3.1.c	4.1.a	5.1.a	6.1.a	6.1.b	7	8	9	10
			Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (Ia and Ib)(WHO)	Acute toxicity mammals and birds LD50< 200mg/kg body weight	Fatal if inhaled (H330) (GHS)	Carcinogen and probable carc. (1 and 2A) (IARC)	Carcinogen and probable carc (US EPA)	Carcinogen and probable carc. (1A & 1B) (EU GHS)	Mutagen and probable mut. (1A and 1B) (EU GHS)	Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	Category 1 (EDC EU)	Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	Aquatic Toxicity (LC/EC 50 <50 µg/l)	Environmental toxicity (Persistent; Bioaccumulation; Leaching)	Dioxin	Heavy Metal
110	69806-40-2	Haloxypop-methyl								•									
111	86479-06-3	Hexaflumuron													•				
112	78587-05-0	Hexythiazox								•									
113	74-90-8	Hydrogen cyanide					•	•											
114	420-04-2	Hydrogen cyanamide												•					
115	35554-44-0	Imazalil								•									
116	140163-89-9	Imicyafos					•												
117	138261-41-3	Imidacloprid					•												
118	57520-17-9	Iminoctadine triacetate					•												
119	72963-72-5	Imiprothrin													•				
120	173584-44-6	Indoxacarb					•												
121	2961-62-8	Ioxynil-sodium					•												
122	36734-19-7	Iprodione								•									
123	140923-17-7	Iprovalicarb								•									
124	24353-61-5	Isocarbophos					•												
125	99675-03-3	Isofenphos-methyl					•												
126	141112-29-0	Isoxaflutole								•									
127	58769-20-3	Kadethrin													•				
128	143390-89-0	Kresoxim-methyl								•									
129	330-55-2	Linuron										•		•					

FSC RESTRICTED LIST  
221 pesticides

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS		
			1.1.a	1.1.b	1.1.c	2.1.a	2.1.b	2.1.c	3.1.a	3.1.b	3.1.c	4.1.a	5.1.a	6.1.a	6.1.b	7	8	9	10
			Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (Ia and Ib)(WHO)	Acute toxicity mammals and birds LD50< 200mg/kg body weight	Fatal if inhaled (H330) (GHS)	Carcinogen and probable carc. (1 and 2A) (IARC)	Carcinogen and probable carc (US EPA)	Carcinogen and probable carc. (1A & 1B) (EU GHS)	Mutagen and probable mut. (1A and 1B) (EU GHS)	Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	Category 1 (EDC EU)	Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	Aquatic Toxicity (LC/EC 50 <50 µg/l)	Environmental toxicity (Persistent; Bioaccumulation; Leaching)	Dioxin	Heavy Metal
130	103055-07-8	Lufenuron														•			
131	8018-01-7	Mancozeb								•					•				
132	110235-47-7	Mepanipyrim								•									
133	131-72-6	Meptyldinocap														•			
134	108-62-3	Metaldehyde					•												
135	137-41-7	Metam-potassium								•					•				
136	137-42-8	Metam-sodium								•					•				
137	10265-92-6	Methamidophos				•	•	•											
138	9006-42-2	Metiram								•					•				
139	240494-70-6	Metofluthrin														•			
140	74-88-4	Methyl iodide; Iodomethane					•			•									
141	Group	Mineral oils; paraffin oils cont. >3%DMSO								•									
142	2212-67-1	Molinate												•					
143	71526-07-3	MON 4660; AD 67								•									
144	142-59-6	Nabam														•			
145	54-11-5	Nicotine				•	•	•											
146	1929-82-4	Nitrapyrin					•												
147	98-95-3	Nitrobenzene										•							
148	116714-46-6	Novaluron														•			

FSC RESTRICTED LIST  
221 pesticides

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS	
			1.1.a Stockholm (POP)	1.1.b Rotterdam (PIC)	1.1.c Montreal	2.1.a Extremely or highly hazardous (Ia and Ib)(WHO)	2.1.b Acute toxicity mammals and birds LD50< 200mg/kg body weight	2.1.c Fatal if inhaled (H330) (GHS)	3.1.a Carcinogen and probable carc. (1 and 2A) (IARC)	3.1.b Carcinogen and probable carc (US EPA)	3.1.c Carcinogen and probable carc. (1A & 1B) (EU GHS)	4.1.a Mutagen and probable mut. (1A and 1B) (EU GHS)	5.1.a Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	6.1.a Category 1 (EDC EU)	6.1.b Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	7 Aquatic Toxicity (LC/EC 50 <50 µg/l)	8 Environmental toxicity (Persistent; Bioaccumulation; Leaching)	9 Dioxin
149	121451-02-3	Noviflumuron													•			
150	63284-71-9	Nuarimol														•		
151	19044-88-3	Oryzalin							•									
152	19666-30-9	Oxadiazon							•									
153	23135-22-0	Oxamyl				•	•	•										
154	301-12-2	Oxydemeton-methyl				•	•											
155	42874-03-3	Oxyfluorfen							•									
156	40487-42-1	Pendimethalin														•		
157	26002-80-2	Phenothrin													•			
158	1918-02-1	Picloram											•					
159	117428-22-5	Picoxystrobin													•			
160	83-26-1	Pindone					•											
161	24151-93-7	Piperophos													•			
162	29232-93-7	Pirimiphos-methyl													•			
163	299-45-6	Potasan						•										
164	23031-36-9	Prallethrin													•			
165	32809-16-8	Procymidone							•				•					
166	41198-08-7	Profenofos													•			
167	139001-49-3	Profoxydim											•					
168	709-98-8	Propanil					•											

FSC RESTRICTED LIST  
221 pesticides

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS		
			1.1.a	1.1.b	1.1.c	2.1.a	2.1.b	2.1.c	3.1.a	3.1.b	3.1.c	4.1.a	5.1.a	6.1.a	6.1.b	7	8	9	10
			Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (Ia and Ib)(WHO)	Acute toxicity mammals and birds LD50< 200mg/kg body weight	Fatal if inhaled (H330) (GHS)	Carcinogen and probable carc. (1 and 2A) (IARC)	Carcinogen and probable carc (US EPA)	Carcinogen and probable carc. (1A & 1B) (EU GHS)	Mutagen and probable mut. (1A and 1B) (EU GHS)	Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	Category 1 (EDC EU)	Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	Aquatic Toxicity (LC/EC 50 <50 µg/l)	Environmental toxicity (Persistent; Bioaccumulation; Leaching)	Dioxin	Heavy Metal
169	60207-90-1	Propiconazole											•						
170	12071-83-9	Propineb								•									
171	75-56-9	Propylene oxide, Oxirane								•	•								
172	123312-89-0	Pymetrozine								•									
173	175013-18-0	Pyraclostrobin													•				
174	129630-19-9	Pyraflufen-ethyl								•									
175	6814-58-0	Pyrazachlor								•									
176	108-34-9	Pyrazoxone						•											
177	8003-34-7	Pyrethrins													•				
178	119-12-0	Pyridaphenthion					•												
179	337458-27-2	Pyrifluquinazon													•				
180	135186-78-6	Pyrifthalid													•				
181	105779-78-0	Pyrimidifen					•												
182	200509-41-7	Quisalofop-p-tefuryl												•					
183	83-79-4	Rotenone													•				
184	127-90-2	S421					•												
185	105024-66-6	Silafluofen										•							
186	143-33-9	Sodium cyanide				•	•												
187	62-74-8	Sodium fluoroacetate (1080)				•	•	•											
188	283594-90-1	Spiromesifen													•				

FSC RESTRICTED LIST  
221 pesticides

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS	
			1.1.a Stockholm (POP)	1.1.b Rotterdam (PIC)	1.1.c Montreal	2.1.a Extremely or highly hazardous (Ia and Ib)(WHO)	2.1.b Acute toxicity mammals and birds LD50< 200mg/kg body weight	2.1.c Fatal if inhaled (H330) (GHS)	3.1.a Carcinogen and probable carc. (1 and 2A) (IARC)	3.1.b Carcinogen and probable carc (US EPA)	3.1.c Carcinogen and probable carc. (1A & 1B) (EU GHS)	4.1.a Mutagen and probable mut. (1A and 1B) (EU GHS)	5.1.a Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	6.1.a Category 1 (EDC EU)	6.1.b Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	7 Aquatic Toxicity (LC/EC 50 <50 µg/l)	8 Environmental toxicity (Persistent; Bioaccumulation; Leaching)	9 Dioxin
189	57-24-9	Strychnine				•												
190	4151-50-2	Sulfluramid		• <sup>4</sup>														
191	2699-79-8	Sulfuryl fluoride				•												
192	102851-06-9	Tau-fluvalinate												•				
193	119168-77-3	Tebufenpyrad												•				
194	83121-18-0	Teflubenzuron												•				
195	3383-96-8	Temephos												•				
196	149979-41-9	Tepaloxymid										•						
197	33693-04-8	Terbumeton													•			
198	886-50-0	Terbutryn											•					
199	7696-12-0	Tetramethrin												•				
200	71697-59-1	theta-cypermethrin					•											
201	31895-21-3	Thiocyclam												•				
202	39196-18-4	Thiofanox				•	•											
203	640-15-3	Thiometon				•	•											
204	23564-05-8	Thiophanate-methyl						•										
205	29547-00-0	Thiosultap-monosodium					•											

<sup>4</sup> Listed in Annex III in the category industrial chemical, not as pesticide.

FSC RESTRICTED LIST  
221 pesticides

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS		
			1.1.a	1.1.b	1.1.c	2.1.a	2.1.b	2.1.c	3.1.a	3.1.b	3.1.c	4.1.a	5.1.a	6.1.a	6.1.b	7	8	9	10
			Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (Ia and Ib)(WHO)	Acute toxicity mammals and birds LD50< 200mg/kg body weight	Fatal if inhaled (H330) (GHS)	Carcinogen and probable carc. (1 and 2A) (IARC)	Carcinogen and probable carc (US EPA)	Carcinogen and probable carc. (1A & 1B) (EU GHS)	Mutagen and probable mut. (1A and 1B) (EU GHS)	Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	Category 1 (EDC EU)	Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	Aquatic Toxicity (LC/EC 50 <50 µg/l)	Environmental toxicity (Persistent; Bioaccumulation; Leaching)	Dioxin	Heavy Metal
206	62-56-6	Thiourea												•					
207	330459-31-9	Tioxazafen								•									
208	118712-89-3	Transfluthrin													•				
209	55219-65-3	Triadimenol											•						
210	72459-58-6	Triazoxide					•												
211	78-48-8	Tribufos					•												
212	81412-43-3	Tridemorph											•						
213	141517-21-7	Trifloxystrobin													•				
214	68694-11-1; 99387-89-0	Triflumizole											•						
215	64628-44-0	Triflumuron													•				
216	1582-09-8	Trifluralin												•					
217	2275-23-2	Vamidothion				•	•												
218	50471-44-8	Vinclozolin											•		•				
219	2655-14-3	XMC					•												
220	12122-67-7	Zineb												•					
221	160791-64-0	ZXI 8901													•				

## Active ingredients in groups in the restricted list

Group	CAS Number	Pesticide active ingredient
Borax; Borate salts	12008-41-2	Borax, disodium octaborate anhydrous
Borax; Borate salts	12280-03-4	Borax, disodium octaborate tetrahydrate
Borax; Borate salts	1303-96-4	Borax, disodium tetraborate decahydrate

Group	CAS Number	Pesticide active ingredient
Glyphosate and its salts	1071-83-6	Glyphosate
Glyphosate and its salts	69254-40-6	Glyphosate-diammonium
Glyphosate and its salts	38641-94-0	Glyphosate-isopropylammonium (IPA; -isopropylamine)
Glyphosate and its salts	40465-66-5	Glyphosate-monoammonium
Glyphosate and its salts	34494-03-6	Glyphosate-sodium
Glyphosate and its salts	81591-81-3	Glyphosate-trimesium

Group	CAS Number	Pesticide active ingredient
Paraffin oils; mineral oils cont. > 3%DMSO	64741-88-4	Paraffin oil
Paraffin oils; mineral oils cont. > 3%DMSO	64741-89-5	Paraffin oil
Paraffin oils; mineral oils cont. > 3%DMSO	64741-97-5	Paraffin oil
Paraffin oils; mineral oils cont. > 3%DMSO	64742-46-7	Paraffin oil
Paraffin oils; mineral oils cont. > 3%DMSO	64742-54-7	Paraffin oil
Paraffin oils; mineral oils cont. > 3%DMSO	64742-55-8	Paraffin oil
Paraffin oils; mineral oils cont. > 3%DMSO	64742-65-0	Paraffin oil
Paraffin oils; mineral oils cont. > 3%DMSO	64742-95-6	Paraffin oil
Paraffin oils; mineral oils cont. > 3%DMSO	72623-86-0	Paraffin oil
Paraffin oils; mineral oils cont. > 3%DMSO	97862-82-3	Paraffin oil