



Policy

LISTS OF HIGHLY HAZARDOUS PESTICIDES

FSC-POL-30-001a

DRAFT 1-0



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Contact for comments:	FSC International – Performance and Standards Unit Adenauerallee 134 53113 Bonn Germany
	Phone: +49 (0)228 36766 0 Fax: +49 (0)228 36766 65 Email : psu@fsc.org

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INTRODUCTION

This addendum lists chemical pesticides that meet the indicators and thresholds set out in Annex 1 of <[FSC-POL-30-001 FSC Pesticides Policy](#)>. Such chemical pesticides are therefore considered to be highly hazardous and are classified as prohibited, highly restricted or restricted in the FSC system.

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A. SCOPE

This addendum is mandatory for The Organization, FSC-accredited certification bodies and Standard Developers.

All aspects of this document are considered normative, including the scope, effective and validity dates, references, terms and definitions, footnotes, graphics, tables and annexes, unless otherwise stated.

Notes, information/guidance boxes and examples are not considered normative.

As part of the FSC normative framework, this addendum is subject to the review and revision requirements of [<FSC-PRO-01-001 Development and Revision of FSC Requirements>](#).

B. REFERENCES

The following documents are indispensable for the application of this document.

For references without a version number, the latest version of the referenced document (including any amendments) applies:

FSC-POL-30-001	FSC Pesticides Policy
FSC-STD-60-004	International Generic Indicators

C. TERMS AND DEFINITIONS

For the purposes of this document, the terms and definitions included in [<FSC-STD-01-002 FSC Glossary of Terms>](#), [<FSC-POL-30-001 FSC Pesticides Policy>](#), and the following apply:

No additional terms and definitions are listed in this document.

Verbal forms for the expression of provisions:

[Adapted from ISO/IEC Directives Part 2: *Rules for the structure and drafting of International Standards*]

“shall”: indicates requirements strictly to be followed in order to conform with the standard.

“should”: indicates that among several possibilities one is recommended as particularly suitable, without mentioning or excluding others, or that a certain course of action is preferred but not necessarily required. A ‘should requirement’ can be met in an equivalent way provided this can be demonstrated and justified.

“may”: indicates a course of action permissible within the limits of the document.

“can”: is used for statements of possibility and capability, whether material, physical or causal.

LISTS OF FSC HIGHLY HAZARDOUS PESTICIDES

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 [FSC-POL-30-001 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)
	7	Acute toxicity to aquatic organisms
Environmental toxicity	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 The Organization 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.

List of FSC Prohibited HHP

The list of FSC prohibited HHP includes chemical pesticides that:

- 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 coloured criteria and indicators are considered to classify HHP as FSC prohibited pesticides.

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

Consultation note: The changes made to the lists of FSC highly hazardous pesticides have been highlighted in yellow in the tables below. Rationale for these changes is included in the comments section (find them at the right side of the document).

1 file accompanies the draft in this consultation, titled 'Supporting material: Changes in Draft 1-0.'

FSC PROHIBITED LIST

[48-50](#) 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			
4	542-75-6	1,3-dichloropropene							Extremely or highly hazardous (1a and 1b)(WHO)	Acute toxicity mammals and birds LD50< 200mg/kg body weight	Fatal if inhaled (H330) (GHS)	Carcinogen and probable carcin. (1 and 2A) (IARC)	Carcinogen and probable carcin. (US EPA)	Carcinogen and probable carcin. (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
21	34256-82-1	Acetochlor		REC ¹																		
32	15972-60-8	Alachlor		•																		
43	116-06-3	Aldicarb		•		•	•	•								•						
54	319-84-6	Alpha hexachlorocyclohexane	•						•										•			
65	Group	Arsenic and its compounds																				
76	86-50-0	Azinphos-methyl		•		•	•	•								•						
87	319-85-7	Beta-hexachlorocyclohexane	•																•			
98	Group	Cadmium compounds																	•			
109	2425-06-1	Captan		•		•				•	•	•										
110	1563-66-2	Carbofuran		•		•	•	•								•						
111	55285-14-8	Carbosulfan		REC					•	•						•						
112	2439-01-2	Chinomethionat							•		•					•						

¹ REC = Recommended for listing under the relevant convention.

Commented [FSC1]: No longer classified by US EPA as Carcinogen and probable carcinogen - Moved to Restricted List

Commented [FSC2]: Added aquatic toxicity - sediment dwelling organisms - Acute 96 hour LC₅₀ (mg l⁻¹): 0,004

FSC PROHIBITED LIST 48-50 pesticides (including heavy metals and dioxins)			INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS						
ID	CAS number	Pesticide active ingredient	Stockholm (POP)	Rotterdam (PIC)	Montreal	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	
14 13	57-74-9	Chlordane	•	•					•			Carcinogen and probable carcinogen (1A and 2A) (IARC)											
16 14	1897-45-6	Chlorothalonil							•				•										
16 15	50-29-3	DDT	• ²	•					•				•										
17 16	333-41-5	Diazinon							•			•											
18 17	115-32-2	Dicofol	REC																				
19 18	Group	DNOC and its salts		•					•	•	•												
20 19	106-93-4	Ethylene dibromide; EDB		•					•			•	•	•					•				
24 20	115-29-7	Endosulfan	•	•					•	•										•			
22 21	13194-48-4	Ethoprophos							•	•	•								•				
23 22	56-38-2	Parathion; Parathion-ethyl		•					•	•	•								•				

Commented [FSC3]: Added aquatic toxicity - Aquatic crustaceans - Acute 96 hour LC₅₀ (mg l⁻¹): 0,015

² DDT is listed under Annex B (restriction)

FSC PROHIBITED LIST 48-50 pesticides (including heavy metals and dioxins)			INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS						
ID	CAS number	Pesticide active ingredient	Stockholm (POP)	Rotterdam (PIC)	Montreal	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	
24 23	107-06-2	Ethylene dichloride; ;1,2-Dichloroethane		•		Extremely or highly hazardous (1a and 1b)(WHO)			Acute toxicity mammals and birds LD50< 200mg/kg body weight.	Fatal if inhaled (H330) (GHS)		Carcinogen and probable carcin. (1 and 2A) (IARC)				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
25 24	75-21-8	Ethylene oxide		•									•	•	•	•	•						
26 25	55-38-9	Fenthion	REC				•												•				
27 26	640-19-7	Fluoroacetamide		•			•	•															
28 27	98-01-1	Furfural							•				•										
29 28	608-73-1	HCH (mixed isomers)		•								•						•					
30 29	118-74-1	Hexachlorobenzene	•	•		•						•	•					•	•				
30 31	36734-19-7	Iprodione	REC									•											
31	58-89-9	Lindane; gamma-HCH	•	•					•									•	•				
32	Group	Mercury and its compounds																				•	
33 32	72-43-5	Methoxychlor	REC														•	•					
33 34	74-83-9	Methyl bromide			•				•														
34 35	556-61-6	Methyl isothiocyanate; MITC							•				•										

Commented [FSC4]: Added Repr. 1 (EU)

Commented [FSC5]: Recommended for listing under Annex III of the Rotterdam Convention - Moved from the Restricted List

Commented [FSC6]: Recommended for listing under the Stockholm Convention - Moved from the Highly Restricted List

FSC PROHIBITED LIST

[48-50](#) 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
35	6923-22-4	Monocrotophos		•		•	•	•	Carcinogen and probable carc. (1 and 2A) (IARC)	Carcinogen and probable carc. (US EPA)	Carcinogen and probable carc. (IA & IB) (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
36	4685-14-7;	Paraquat dichloride		REC			•	•											
37	1910-42-5																		
38	298-00-0	Parathion-methyl		SHPF 3		•	•	•											
38	87-86-5; 131-52-2 ; 27735-64-4 ; 3772-94-9 ; 1825-21-4	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					•												

³ SHPF = Severely hazardous pesticide formulation

Commented [FSC7]: New CAS numbers for salts

Commented [FSC8]: Now listed under Annex III of the Rotterdam Convention - not only recommended

FSC PROHIBITED LIST

[48-50](#) pesticides (including heavy metals and dioxins)

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS	
			Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (1a and 1b)(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
44 45	82-68-8	Quintozene; PCNB																
46 47	13071-79-9	Terbufos	PEC			•	•								•		•	
46 48	112281-77-3	Tetraconazole				•			•		•							
47 49	111988-49-9	Thiacloprid				•			•		•		•					
48 50	59669-26-0	Thiodicarb				•			•		•			•		•		
48 50	52-68-6	Trichlorfon	•											•	•			

Commented [FSC9]: Recommended for listing under Annex III of the Rotterdam Convention - Moved from the Highly Restricted List

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	Cacodylate; 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
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

Group	CAS Number	Pesticide active ingredient
Mercury and its compounds	22894-47-9	phenylmercuric formamide
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 threhanolammonium 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

List of FSC Highly Restricted HHP

The list of FSC 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 coloured criteria and indicators are considered to classify HHPs as highly restricted.

FSC HIGHLY RESTRICTED LIST 120-122 pesticides			INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS		
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) (ARC)	Carcinogen and probable carc (US EPA)	Carcinogen and probable carc. (1A &1B) (EU GHS)	Mutagen and probable mut. (IA and 1B) (EU GHS)	Reproductive toxicant and probable repr. tox. (IA 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					●	●							●				
8	22781-23-3	Bendiocarb					●								●				
9	82560-54-1	Benfuracarb					●								●				

Commented [FSC10]: New acute toxicity WHO Ib

FSC HIGHLY RESTRICTED LIST
[120-122](#) 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
10 11	1072957-71-1	Benzovindiflupyr				•			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)	•	Environmental toxicity; (Persistent; Bioaccumulation; Leaching)	Dioxin	
12	68359-37-5b	Beta-cyfluthrin; Cyfluthrin		•		•	•									•			
13 14	65731-84-2	Beta-Cypermethrin				•										•			
15 16	82657-04-3	Bifenthrin				•										•			
17 18	56073-10-0	Brodifacoum				•	•	•				•				•			
19 20	28772-56-7	Bromadiolone				•	•	•				•				•			
21	63333-35-7	Bromethalin				•	•									•			
22	4824-78-6	Bromophos-ethyl				•										•			
23 24	1689-84-5	Bromoxynil				•	•									•			
25 26	1689-99-2	Bromoxynil octanoate				•										•			
27 28	3861-41-4	Bromoxynil butyrate				•	•	•								•			
29 30	95465-99-9	Cadusafos				•										•			

Commented [FSC11]: It wasn't classified under any FSC list. Newly added because of Acute Toxicity AND Environmental toxicity

Commented [FSC12]: It wasn't classified under any FSC list. Newly added because of Acute Toxicity AND Environmental toxicity

FSC HIGHLY RESTRICTED LIST
120-122 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
20 22	1305-99-3	Calcium phosphide	Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (1a and 1b)(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
24 23	63-25-2	Carbaryl				•	•	•		•					•	•			
22 24	15263-52-2	Cartap hydrochloride				•									•	•			
23 25	54593-83-8	Chlorethoxyfos				•	•								•	•			
24 26	122453-73-0	Chlorfenapyr				•	•								•	•			
25 27	470-90-6	Chlorfenvinphos				•	•								•	•			
26 28	3691-35-8	Chlorophacinone				•	•	•						•					
27 29	76-06-2	Chloropicrin					•								•				
28 30	2921-88-2	Chlorpyrifos				•									•	•			
29 31	1333-22-8	Copper sulfate (tribasic); copper hydroxide sulfate				•									•				
30 32	20427-59-2	Copper hydroxide; cupric hydroxide					•								•	•			
31 33	56-72-4	Coumaphos				•	•								•	•			

FSC HIGHLY RESTRICTED LIST
120-122 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
32 34	5836-29-3	Coumatetralyl				•	•	•	Extremely or highly hazardous (1a and 1b)(WHO)	Carcinogen and probable carc. (1 and 2A) (IARC)	Carcinogen and probable carc (US EPA)	Mutagen and probable mut. (1A and 1B) (EU GHS)	Reproductive toxicant and probable mut. (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)	•	Dioxin	
33 35	68359-37-5	Cyfluthrin				•	•								Environmental toxicity (Persistent; Bioaccumulation; Leaching)				
34 36	68085-85-8	Cyhalothrin					•												
35 37	52315-07-8	Cypermethrin				•	•												
36 38	94361-06-5	Cyproconazole					•												
37 39	52918-63-5	Deltamethrin					•												
38 40	919-86-8	Demeton-S-methyl				•	•												
39 41	62-73-7	Dichlorvos; DDVP				•	•	•											
40 42	141-66-2	Dicrotophos				•	•												
41 43	56073-07-5	Difenacoum				•	•	•											
42 44	104653-34-1	Difethialone				•	•	•											
45	60-51-5	Dimethoate					•												

Commented [FSC13]: Added aquatic toxicity - Sediment dwelling organisms - Acute 96 hour LC₅₀ (mg l⁻¹): 0.00129 - Moved from the Restricted List

FSC HIGHLY RESTRICTED LIST
120-122 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
43 46	2274-67-1	Dimethylvinphos	Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (1a and 1b)(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
44 47	149961-52-4	Dimoxystrobin											•		•				
45 48	973-21-7	Dinobuton				•									•				
46 49	39300-45-3	Dinocap											•			•			
47 50	1420-07-1	Dinoterb				•	•					•				•			
48 51	85-00-7	Diquat dibromide					•	•								•			
49 52	298-04-4	Disulfoton				•	•									•			
50 53	17109-49-8	Edifenphos				•	•									•			
54 54	155569-91-8	Emamectin benzoate					•									•			
52 55	2104-64-5	EPN				•	•									•			
53 56	66230-04-4	Esfenvalerate					•									•			
54 57	563-12-2	Ethion					•									•			

Commented [FSC14]: Added Repr. 2 - Carc.2 (EU)

FSC HIGHLY RESTRICTED LIST
120-122 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
55 58	22224-92-6	Fenamiphos	Stockholm (POP)	Rotterdam (PIC)	Montreal	•	•	•	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 toxic. and probable mut. (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)	•	Dioxin	
56 59	120928-09-8	Fenazaquin				•									Environmental toxicity (Persistent; Bioaccumulation; Leaching)				
57 60	13356-08-6	Fenbutatin oxide				•													
58 61	122-14-5	Fenitrothion				•										•			
59 62	39515-41-8 64257-84-7	Fenpropathrin				•	•									•			
60 63	134098-61-6	Fenpyroximate				•										•			
64 64	900-95-8	Fentin acetate				•	•									•			
62 65	76-87-9	Fentin hydroxide				•	•									•			
66 66	120068-37-3	Fipronil				•										•			
63 67	90035-08-8	Flocoumafen				•	•	•				•							
64 68	70124-77-5	Flucythrinate				•	•									•			
66 69	117337-19-6	Fluthiacet-methyl									•					•			

Commented [FSC15]: Added US CAS number

Commented [FSC16]: Added Repr. 2 - Carc.2 (EU)

Commented [FSC17]: Added aquatic toxicity - Aquatic crustaceans - Acute 96 hour LC₅₀ (mg l⁻¹): 0.00014 - Moved from the Restricted List

FSC HIGHLY RESTRICTED LIST
120-122 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
66 70	22259-30-9	Formetanate				•	•	•	Carcinogen and probable carc. (1a 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 mut. (1A and 1B) (EU GHS)	Category 1 (EDC EU)	Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2)(GHS)	Aquatic Toxicity (LC ₅₀ <50 µg/l)	•		
67 71	23422-53-9	Formetanate hydrochloride					•	•								•			
68 72	65907-30-4	Furathiocarb				•	•	•								•			
69 73	76703-62-3	gamma-cyhalothrin					•									•			
70 74	111872-58-3	Halfenprox					•									•			
71 75	23560-59-0	Heptenophos				•	•									•			
76	138261-41-3	Imidacloprid					•									•			
72 77	1689-83-4	loxynil					•									•			
73 78	3861-47-0	loxynil octanoate					•									•			
74 79	2631-40-5	Isoprocarb					•									•			
75 80	881685-58-1	Isopyrazam						•					•			•			
76 81	18854-01-8	Isoxathion				•	•									•			

Commented [FSC18]: Added aquatic toxicity - Aquatic crustaceans - Acute 96 hour LC₅₀ (mg l⁻¹): 0.00014 - Moved from the Restricted List

Commented [FSC19]: Added Repr. 1 (EU)

FSC HIGHLY RESTRICTED LIST
120-122 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
77 82	91465-08-6	lambda-Cyhalothrin	Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (1a and 1b)(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
78 83	12057-74-8	Magnesium phosphide				•	•												
79 84	121-75-5	Malathion						•											
80 85	12427-38-2	Maneb								•				•					
84 86	2595-54-2	Mecarbam				•	•								•				
82 87	950-37-8	Methidathion				•	•								•				
83 88	2032-65-7	Methiocarb				•	•								•				
84 89	16752-77-5	Methomyl				•	•								•				
85 72-43-5	Methoxychlor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
86 90	21087-64-9	Metribuzin				•							•						
87 91	7786-34-7	Mevinphos				•	•							•					
88 92	300-76-5	Naled				•								•					

Commented [FSC20]: Recommended for listing under the Stockholm Convention. Moved to Prohibited list.

FSC HIGHLY RESTRICTED LIST
120-122 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
89 93	1113-02-6	Omethoate				•	•		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
90	52645-53-4	Permethrin	-	-	-	-	-	-	Terminated use	-	-	-	-	-	-	-	-	-	
94 94	2597-03-7	Phenthroate				•									•		-	-	
92 95	2310-17-0	Phosalone				•									•				
93 96	732-11-6	Phosmet				•									•				
94 97	7803-51-2	Phosphine					•								•				
95 98	14816-18-3	Phoxim				•									•				
96 99	2312-35-8	Propargite								•					•				
97 100	31218-83-4	Propetamphos				•	•								•				
98 101	34643-46-4	Prothiofos					•								•				
99 102	77458-01-6	Pyraclofos					•								•				
100 103	13457-18-6	Pyrazophos						•							•				

Commented [FSC21]: No longer classified by US EPA as Carcinogen and probable carcinogen - Moved to Restricted List

FSC HIGHLY RESTRICTED LIST
120-122 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
104 104	96489-71-3	Pyridaben	Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (1a and 1b)(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
102 105	13593-03-8	Quinalphos				•													
103 106	10453-86-8	Resmethrin							•					•					
104 107	148477-71-8	Spirodiclofen							•	•					•				
105 108	3689-24-5	Sulfotep				•	•								•				
106 109	21564-17-0	TCMTB						•							•				
107 110	96182-53-5	Tebupirimfos				•	•								•				
108 111	79538-32-2	Tefluthrin				•	•	•							•				
109 13071-79-9	Terbufos	- - -	- - -	- - -	- - -	•	•	- -	- -	- -	- -	- -	- -	- -	•	- -	- -	- -	
110 112	22248-79-9	Tetrachlorvinphos							•						•				
111 113	137-26-8	Thiram												•	•				
112 114	129558-76-5	Toltenpyrad					•								•				

Commented [FSC22]: Recommended for listing under Annex III of the Rotterdam Convention - Moved to the Prohibited list

FSC HIGHLY RESTRICTED LIST
120-122 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	
413 115	731-27-1	Tolylfluanid	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)	•	•	Dioxin	Heavy Metal
414 116	66841-25-6	Tralomethrin				•				•										
415 117	112143-82-5	Triazamate				•										•				
416 118	24017-47-8	Triazophos				•	•									•				
417 119	81-81-2	Warfarin				•	•	•					•							
418 120	52315-07-8z	zeta-Cypermethrin				☛(re move d)	•								•					
419 121	1314-84-7	Zinc phosphide				•	•	•							•					
420 122	137-30-4	Ziram				•	•					•			•					

Commented [FSC23]: No longer Acute toxicity WHO Ia or Ib - Now Classified as WHO II

List of FSC Restricted HHP

The list of FSC 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 221-216 pesticides			INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS		
ID	CAS number	Pesticide active ingredient	Stockholm (POP)	Rotterdam (PIC)	Montreal	Extremely or highly hazardous (1a and 1b)(WHO)	Acute toxicity mammals and birds LD50< 200mg/Kg body weight	Fatal if inhaled (H330) (GHS)	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
1	542-75-6	1,3-dichloropropene; Telone				●													
2	94-75-7	2,4-D				●													
3	94-82-6	2,4-DB				●													
4	504-24-5	4-aminopyridine				●													
5	133-32-4	4-Indol-3-ylbutyric acid				●													
6	148-24-3	8-hydroxyquinoline																	
7	30560-19-1	Acephate				●													
8	57960-19-7	Acequinocyl													●				
9	135410-20-7	Acetamiprid				●													
10	101007-06-1	Acrinathrin													●				

Commented [FSC24]: No longer classified by US EPA as Carcinogen and probable carcinogen - "Telone" is used as synonym for 1,3-Dichloropropene. US EPA uses this name in the list of carcinogenic pesticides with the CAS Number of 1,3-Dichloropropene - Moved from Prohibited List

FSC RESTRICTED LIST
224-216 pesticides

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS	
			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
10	96-24-2	Alpha-chlorhydrin				•	•								•	•		
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																		

FSC RESTRICTED LIST
224-216 pesticides

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS	
			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
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				•	•											
31	34681-23-7	Butoxycarboxim				•												
32	592-01-8	Calcium cyanide				•	•											
33	133-06-2	Captan													•			
34																		

FSC RESTRICTED LIST
224-216 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
34	10605-21-7	Carbendazim				Extremely or highly hazardous (Ia and Ib)(WHO)			Carcinogen and probable carc. (1 and 2A) (IARC)					Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)				
35	16118-49-3	Carbetamide					Acute toxicity mammals and birds LD50< 200mg/kg body weight		Carcinogen and probable carc (US EPA)				Aquatic Toxicity (LC/EC 50 <50 µg/l)					
36	15879-93-3	Chloralose				•			Carcinogen and probable carc. (1A &1B) (EU GHS)				Environmental toxicity (Persistent; Bioaccumulation; Leaching)					
37	500008-45-7	Chlorantraniliprole																
38	71422-67-8	Chlorfluazuron																
39	24934-91-6	Chlormephos				•	•											
40	79-11-8	Chloroacetic acid					•											
41	67-66-3	Chloroform										•	•					
42	120-32-1	Chlorophene										•	•					
43	15545-48-9	Chlorotoluron										•	•					
44	5598-13-0	Chlorpyrifos-methyl												•				
45	67-97-0	Cholecalciferol				•	•											
46														Dioxin			Heavy Metal	

Commented [FSC25]: Added Repr. 2 - Carc.2 (EU)

Commented [FSC26]: Added Repr. 2 - Carc.2 (EU)

Commented [FSC27]: Added Repr. 2 - Carc.2 (EU)

FSC RESTRICTED LIST
224-216 pesticides

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS	
			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
45	74115-24-5	Clofentezine																
47	65996-82-9	Coal tar oils																
48	1332-40-7	Copper oxychloride				•				•								
49	8001-58-9	Creosote								•								
50	1347-39-1	Cuprous oxide	-	-	-										▲(remove) ■)		-	-
51	21725-46-2	Cyanazine				•									●			
52	560121-52-0	Cyanoptyrafen													●			
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	Diflumetorim													●			
62	271241-14-6	Dimefluthrin													●			
63	22936-75-0	Dimethametryn													●			

Commented [FSC28]: Aquatic toxicity is below threshold - no longer meets the criteria of classification under the FSC's lists

FSC RESTRICTED LIST
224-216 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
64	60-51-5	Dimethoate	-	-	-	-	• (removed)	-	-	-	-	-	-	-	-	-	-	-	
65	624-92-0	Dimethyl disulfide					•												
64	110488-70-5	Dimethomorph											•						
66	82-66-6	Diphasalcone				•	•												
67	4032-26-2	Diquat dichloride						•											
68	330-54-1	Diuron							•										
69	2439-10-3	Dodine													•				
70	297-99-4	E-Phosphamidon				•													
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													•				

Commented [FSC29]: Added aquatic toxicity - Sediment dwelling organisms - Acute 96 hour LC₅₀ (mg l⁻¹): 0.00129 - Moved to the Highly Restricted List

Commented [FSC30]: It wasn't classified under any FSC list. Newly added because of Repro. 1B (EU)

Commented [FSC31]: Added Repr. 1 (EU)

FSC RESTRICTED LIST
224-216 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
83	52-85-7	Famphur				•	•		Carcinogen and probable carc. (1 and 2A) (IARC)			Mutagen and probable mut. (1A and 1B) (EU GHS)			Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat 2) (GHS)	•		Dioxin
84	60168-88-9	Fenarimol							Carcinogen and probable carc (US EPA)			Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)			Aquatic Toxicity (LC/EC 50 <50 µg/l)	•		Heavy Metal
85	103112-35-2	Fenchlorazole-ethyl							•						Environmental toxicity (Persistent; Bioaccumulation; Leaching)			
86	3766-81-2	Fenobucarb																
87	72490-01-8	Fenoxy carb								•								
88	517875-34-2	Fenpicoxamid																
89	668-34-8	Fentin				•												
90	51630-58-1	Fenvalerate																
91	120068-37-3	Epronil	-	-	-	-	■ (removed)											
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	-	-	-	-	-	-	■ (removed)									

Commented [FSC32]: Added aquatic toxicity - Aquatic crustaceans - Acute 96 hour LC₅₀ (mg l⁻¹): 0.00014 - Moved to the Highly Restricted List

Commented [FSC33]: Deleted from the list because no longer classified as Repr. 1 but as Repr.2 (EU)

FSC RESTRICTED LIST
224-216 pesticides

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS	
			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
99 <u>97</u>	136426-54-5	Fluquinconazole				•												
100 <u>98</u>	85509-19-9	Flusilazole																
104 <u>99</u>	106917-52-6	Flusulfamide				•												
102 <u>100</u>	133-07-3	Folpet								•								
103	68457-60-8	Terchlorfenuron	-	-	-										▲(remov ed)	-	-	
104 <u>101</u>	50-00-0	Formaldehyde							•	•	•							
105 <u>102</u>	98886-44-3	Fosthiazate				•												
106 <u>103</u>	121776-33-8	Furilazole								•								
107 <u>104</u>	77182-82-2	Glufosinate-ammonium											•					
108 <u>105</u>	Group	Glyphosate and its salts						•										
109 <u>106</u>	108173-90-6	Guazatine				•												
110 <u>107</u>	69806-40-2	Haloxylfop-methyl								•								

Commented [FSC34]: Deleted from list because no longer meeting the ecotoxicity criteria BCF < 1000

FSC RESTRICTED LIST
224-216 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
111 108	86479-06-3	Hexaflumuron				Extremely or highly hazardous (Ia and Ib)(WHO)			Carcinogen and probable carc. (1 and 2A) (IARC)			Mutagen and probable mut. (1A and 1B) (EU GHS)			Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	Aquatic Toxicity (LC/EC 50 <50 µg/l)		
112 109	78587-05-0	Hexythiazox							Carcinogen and probable carc. (US EPA)	•		Reproductive toxicant and probable repr. tox. (1A and 1B). (EU GHS)	•		Environmental toxicity (Persistent; Bioaccumulation; Leaching)	•		
113 110	74-90-8	Hydrogen cyanide				•	•		Carcinogen and probable carc. (1A &1B) (EU GHS)			Category 1 (EDC EU)			Dioxin			
114 111	420-04-2	Hydrogen cyanamide																
115 112	35554-44-0	Imazalil																
116 113	140163-89-9	Imicyafos				•												
117 138261-41-3	Imidacloprid	- - - - -	- - - - -	- - - - -	- - - - -	• - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	
118 114	57520-17-9	Iminoctadine triacetate				•												
119 115	72963-72-5	Imiprothrin													•			
120 116	173584-44-6	Indoxacarb				•												
121 117	2961-62-8	loxynil-sodium				•										- - - - -	- - - - -	
122 117	36734-19-7	Iprodione	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	
123 118	140923-17-7	Iprovalicarb							•									

Commented [FSC35]: Added Repr. 2 - Carc.2 (EU)

Commented [FSC36]: Added aquatic toxicity - Aquatic crustaceans - Acute 96 hour LC₅₀ (mg l⁻¹): 0.00014 - Moved to the Highly Restricted List

Commented [FSC37]: Recommended for listing under Annex III of the Rotterdam Convention - Moved to the Prohibited List

FSC RESTRICTED LIST
224-216 pesticides

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS	
			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
124 <u>119</u>	24353-61-5	Isocarbophos				•												
125 <u>120</u>	99675-03-3	Isofenphos-methyl				•												
126 <u>121</u>	141112-29-0	Isoxaflutole						•										
127 <u>122</u>	58769-20-3	Kadethrin																
128 <u>123</u>	143390-89-0	Kresoxim-methyl						•										
129 <u>124</u>	330-55-2	Linuron																
130 <u>125</u>	103055-07-8	Lufenuron																
134 <u>126</u>	8018-01-7	Mancozeb						•				•		•				
132 <u>127</u>	110235-47-7	Mepanipyrim						•										
133 <u>128</u>	131-72-6	Meptyldinocap					•								•			
134 <u>129</u>	108-62-3	Metaldehyde																
135 <u>130</u>	137-41-7	Metam-potassium							•					•				

Commented [FSC38]: Added Repr. 1 (EU)

FSC RESTRICTED LIST
[224-216](#) pesticides

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS	
			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
136 131	137-42-8	Metam-sodium													•			
137 132	10265-92-6	Methamidophos				•	•	•										
138 133	9006-42-2	Metiram								•					•			
139 134	240494-70-6	Metofluthrin													•			
140 135	74-88-4	Methyl iodide; Iodomethane					•			(remo ved)								
137 51596-11-3	51596-10-2; Milbemectin														•			
144 136	Group	Mineral oils; paraffin oils cont. >3%DMSO									•							
142 138	2212-67-1	Molinate										•	•					
143 139	71526-07-3	MON 4660; AD 67								•								
144 140	142-59-6	Nabam													•			
145 141	54-11-5	Nicotine				•	•	•										
146 142	1929-82-4	Nitrapyrin																

Commented [FSC39]: No longer classified as Probable carcinogenic by EU GHS

Commented [FSC40]: Newly added because of Aquatic toxicity - Aquatic invertebrates - Acute 48 hour EC₅₀ (mg l⁻¹) 0.011

Commented [FSC41]: Added Repr. 2 - Carc.2 (EU)

FSC RESTRICTED LIST
[224-216](#) 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
147 143	98-95-3	Nitrobenzene				Extremely or highly hazardous (Ia and Ib)(WHO)			Carcinogen and probable carc. (1 and 2A) (IARC)			Mutagen and probable mut. (1A and 1B) (EU GHS)		Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat 2) (GHS)	Aquatic Toxicity (LC/EC 50 <50 µg/l)		Dioxin	
148 144	116714-46-6	Novaluron							Carcinogen and probable carc (US EPA)			Reproductive toxicant and probable repr. tox. (1A and 1B) (EU GHS)	•		Environmental toxicity (Persistent; Bioaccumulation; Leaching)	•		
149 145	121451-02-3	Noviflumuron							Carcinogen and probable carc. (1A &1B) (EU GHS)			Category 1 (EDC EU)						
150 146	63284-71-9	Nuarimol																
154 147	19044-88-3	Oryzalin							•									
152 148	19666-30-9	Oxadiazon							•									
153 149	23135-22-0	Oxamyl				•	•	•										
154 150	301-12-2	Oxydemeton-methyl				•	•											
155 151	42874-03-3	Oxyfluorfen							•									
156	40487-42-1	Pendimethalin	-	-	-	-	-	-	-	-	-	-	-	◆(remov ed)	-	-	-	-
152	52645-53-1	Permethrin	-	-	-	-	-	-	◆(remov ed)	-	-	-	-	●	-	-	-	-
157 153	26002-80-2	Phenothrin												●				

Commented [FSC42]: Deleted from list because KOC and solubility no longer match the indicators

Commented [FSC43]: No longer classified by US EPA as Carcinogen and probable carcinogen. Moved from the Highly Restricted List

FSC RESTRICTED LIST
224-216 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
158 154	1918-02-1	Picloram	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
159 155	117428-22-5	Picoxystrobin																	
160 156	83-26-1	Pindone				•													
161 157	24151-93-7	Piperophos																	
162 158	29232-93-7	Pirimiphos-methyl																	
163 159	299-45-6	Potasan					•												
164 160	23031-36-9	Prallethrin																	
165 161	32809-16-8	Procymidone							•										
166 162	41198-08-7	Profenofos																	
167 163	139001-49-3	Profoxydim										•	•						
168 164	709-98-8	Propanil				•													
169 165	60207-90-1	Propiconazole										•							

Commented [FSC44]: Added Repr. 2 - Carc.2 (EU)

FSC RESTRICTED LIST
224-216 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	
170 166	12071-83-9	Propineb	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)	•	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
171 167	75-56-9	Propylene oxide, Oxirane																		
172 168	123312-89-0	Pymetrozine								•										
173 169	175013-18-0	Pyraclostrobin								•										
174 170	129630-19-9	Pyraflufen-ethyl								•										
175 171	6814-58-0	Pyrazachlor								•										
176 172	108-34-9	Pyrazoxone						•												
177 173	8003-34-7	Pyrethrins														•				
178 174	119-12-0	Pyridaphenthion				•														
179 175	337458-27-2	Pyrifluquinazon														•				
180 176	135186-78-6	Pyriftalid														•				
184 177	105779-78-0	Pyrimidifen				•														

FSC RESTRICTED LIST
224-216 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
182 178	200509-41-7	Quizalofop-p-tetfuryl	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
183 179	83-79-4	Rotenone																	
184 180	127-90-2	S421				•													
185 181	105024-66-6	Silafluofen																	
186 182	143-33-9	Sodium cyanide				•	•												
187 183	62-74-8	Sodium fluoroacetate (1080)				•	•	•											
188 184	283594-90-1	Spiromesifen				•													
189 185	57-24-9	Strychnine																	
190 186	4151-50-2	Sulfluramid	• ⁴				•												
191 187	2699-79-8	Sulfuryl fluoride					•												
192 188	102851-06-9	Tau-fluvalinate													•				

⁴ Listed in Annex III in the category industrial chemical, not as pesticide.

Commented [FSC45]: Added Repr. 2 - Carc.2 (EU)

FSC RESTRICTED LIST
224-216 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	
193 189	119168-77-3	Tebufenpyrad	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)	•	•	Dioxin	
194 190	83121-18-0	Teflubenzuron																		
195 191	3383-96-8	Temephos																		
196 192	149979-41-9	Tepraloxydim																		
197 193	33693-04-8	Terbumeton																		
198 194	886-50-0	Terbutryn																		
199 195	7696-12-0	Tetramethrin																		
200 196	71697-59-1	theta-cypermethrin				•														
204 197	31895-21-3	Thiocyclam																		
202 198	39196-18-4	Thiofanox				•	•													
203 199	640-15-3	Thiometon				•	•													
204 200	23564-05-8	Thiophanate-methyl								•										

Commented [FSC46]: Added Repr. 2 - Carc.2 (EU)

FSC RESTRICTED LIST
224-216 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
205 <u>201</u>	29547-00-0	Thiosultap-monosodium				Extremely or highly hazardous (Ia and Ib)(WHO)			Carcinogen and probable carc. (1 and 2A) (IARC)			Mutagen and probable mut. (1A and 1B) (EU GHS)		Suspected carcinogen (Cat. 2)(GHS) and Endocrine Disruptor (Cat. 2) (GHS)	Aquatic Toxicity (LC/EC 50 <50 µg/l)		Dioxin	
206 <u>202</u>	62-56-6	Thiourea				•			Carcinogen and probable carc. (US EPA)			Reproductive toxicant and probable repr. tox. (1A and 1B). (EU GHS)	•	Environmental toxicity (Persistent; Bioaccumulation; Leaching)				
207	330459-31-9	Tioxazafen	-	-	-				• (remo red)								-	-
208 <u>203</u>	118712-89-3	Transfluthrin																
209 <u>204</u>	55219-65-3	Triadimenol										•						
210 <u>205</u>	72459-58-6	Triazoxide				•												
211 <u>206</u>	78-48-8	Tribufos				•												
212 <u>207</u>	81412-43-3	Tridemorph										•						
213 <u>208</u>	141517-21-7	Trifloxystrobin													•			
214 <u>209</u>	68694-11-1; 99387-89-0	Triflumizole										•						
215 <u>210</u>	64628-44-0	Triflumuron												•				
216 <u>211</u>	1582-09-8	Trifluralin											•					

Commented [FSC47]: Added Repr. 2 - Carc.2 (EU)

Commented [FSC48]: Deleted from list because no longer classified as Carcinogenic /Likely to be carcinogenic by US EPA

FSC RESTRICTED LIST
224-216 pesticides

ID	CAS number	Pesticide active ingredient	INTERNATIONAL CONVENTIONS			ACUTE TOXICITY			CHRONIC TOXICITY						ENVIRONMENTAL TOXICITY		DIOXINS & HEAVY METALS	
			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
<u>217</u> <u>212</u>	2275-23-2	Vamidothion				•	•							•				
<u>218</u> <u>213</u>	50471-44-8	Vinclozolin												•				
<u>219</u> <u>214</u>	2655-14-3	XMC					•							•				
<u>220</u> <u>215</u>	12122-67-7	Zineb												•				
<u>224</u> <u>216</u>	160791-64-0	ZXI 8901 - <u>Brofluthrinate</u>												•				

Commented [FSC49]: The classification doesn't change
- Added the new name Brofluthrinate.

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



FSC International – Performance and Standards Unit

Adenauerallee 134

53113 Bonn

Germany

Phone: +49 (0)228 36766 0

Fax: +49 (0)228 36766 65

Email : psu@fsc.org