



Sustainable  
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Network

# List of Prohibited Pesticides

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The table of prohibited substances of this document will be updated periodically implementing the respective decisions of Sustainable Agriculture Network's International Standards Committee and Board of Directors.

Newly added substances are subject to a three-year or four-year phase out from the date of publication of the updated document depending on the respective SAN board decision.

Once this phase-out period has ended, the use of these substances is prohibited on certified farms.

The Sustainable Agriculture Network (SAN) is a coalition of independent non-profit conservation organizations that promote the social and environmental sustainability of agricultural activities by developing standards. Standard and policy development and review is coordinated by the SAN Secretariat based in San José, Costa Rica. Accredited certification bodies certify farms or group administrators that comply with SAN's standards and policies. Certified farms or group administrators can apply for use of the *Rainforest Alliance Certified™* seal for products grown on certified farms.



The SAN *Sustainable Agriculture Standard* prohibits the use of several pesticides on certified farms determined by international lists of reference selected by the SAN. If use of these pesticides on certified farms is detected during audits, this consequently leads to the cancelling of certification as defined by SAN's *Farm Certification Policy*.

This SAN standards and policy document is binding for farm certification. It updates the contents of the reference sources for critical criterion 8.4. It also provides a complete list of pesticides currently prohibited or to be phased out on certified farms.

The current wording of the Sustainable Agriculture Standard's criterion 8.4 is:

**8.4 Critical Criterion. The following chemical or biological substances cannot be used on certified farms:**

- a. **Biological or organic substances that are not legally registered in the country for commercial use.**
- b. **Agrochemicals that are not registered officially in the country.**
- c. **Agrochemicals that are mentioned in the List of Banned and Severely Restricted Pesticides in the U.S. by its Environmental Protection Agency (EPA) or pesticides banned or severely restricted in the European Union.**
- d. **Substances that have been banned globally under the Stockholm Convention on Persistent Organic Pollutants (POP).**
- e. **Substances listed in Annex III of the Rotterdam Convention on Prior Informed Consent (PIC), in relation to national bans or severe restrictions for documented health or environmental reasons in at least two regions of the World.**
- f. **All Pesticide Action Network Dirty Dozen substances.**

***List of Prohibited Pesticides – Sustainable Agriculture Network*** is binding for the inserts 8.4.c, 8.4.d, 8.4.e and 8.4.f of this criterion.

The respective references for 8.4.c, d, e & f are:

European Commission. Health & Consumer Protection Directorate - General. Directive 79/117/EEC, Council Regulation 805/2004/EC, Directive 91/414/EEC and regulation (EC) of the European Parliament and of the Council No. 689/2008

[http://ec.europa.eu/food/plant/protection/evaluation/exist\\_subs\\_rep\\_en.htm](http://ec.europa.eu/food/plant/protection/evaluation/exist_subs_rep_en.htm)

European Commission Joint Research Centre. Institute for Health and Consumer Protection.

<http://edexim.jrc.it/>

Pesticide Action Network. Dirty Dozen pesticides:

[http://www.pesticideinfo.org/Docs/ref\\_toxicity7.html#DirtyDozen](http://www.pesticideinfo.org/Docs/ref_toxicity7.html#DirtyDozen)

Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade:

<http://www.pic.int/home.php?type=t&id=29&sid=30>

United Nations Environment Program (UNEP). Stockholm Convention on Persistent Organic Pollutants (POPs). <http://www.pic.int/home.php?type=t&id=29&sid=30>

United States Environmental Protection Agency (EPA). Restricted and Canceled Uses of Pesticides. [www.epa.gov/pesticides/regulating/restricted.htm#restricted](http://www.epa.gov/pesticides/regulating/restricted.htm#restricted)

The following table lists 99 active ingredients, categorized by the sources mentioned in critical criterion 8.4 of the *Sustainable Agriculture Standard*. The SAN regulatory status (prohibition or phase-out) is referenced in the last column on the right. Since the publication of the November 2005-version of the SAN *Sustainable Agriculture Standard* and its Additional Criteria, 84 of the 99 substances had not been permitted for use on certified farms. The main decisions of the SAN International Standards Committee (ISC) and Board of Directors are:

- In May 2008 some reference lists for criterion 8.4 were updated. The main reference list for pesticides prohibited by the European Commission is Directive 91/414/EEC reflected in Regulation (EC) of the European Parliament and of the Council No. 689/2008 – more specifically Annex' I Parts 2 and 3. Pesticides included in Annex' I Part 1 - but not listed in Annex' I Parts 2 and 3 - are not mentioned in this document. Industrial Chemicals are not included in this list.
- In April 2009, the ISC decided that until the publication of the 2013 Sustainable Agriculture Standard - version, only substances included in the Stockholm Convention on Persistent Organic Pollutants (POP) or Rotterdam Convention on Prior Informed Consent (PIC) will be added to this list. In May 2009, three substances for agriculture use were added to POP Annex A. In April 2011, endosulfan was added to Annex A of the Stockholm Convention, and the Rotterdam Convention confirmed that decision by including endosulfan - and also alachlor and aldicarb - in its Annex III in July 2011.
- During 2011, the board of directors decided to extend the 3-year phase-out of endosulfan by one year until June 30, 2012, following a Brazilian government decision and the Fifth Meeting of the Conference of the Parties for POP in Geneva, Switzerland, in April 2011. A similar decision was taken for cadusafos and carbaryl to offer certified farms an additional timeframe to find alternative substances for pest control given the official registration delay for some new alternative substances in some countries.
- The use of all substances listed in the table of this document is prohibited on certified farms; except of the substances alpha HCH, beta HCH, cadusafos, carbaryl, endosulfan and pentachlorobenzene, which can be used on certified farms until June 30, 2012. Use of these substances after this date will lead to the cancelling of the farm's certification.

Active Ingredient	EPA <sup>1</sup>	European Union <sup>2</sup>	POP <sup>3</sup>	PIC <sup>4</sup>	PAN Dirty Dozen <sup>5</sup>	SAN Regulatory Status
1. 1,2-dibromoethane ( <i>ethylene dibromide</i> )	X	X		X	X	Prohibited since November 2005
2. 1,2-dichloroethane ( <i>ethylene dichloride</i> )	X	X		X		Prohibited since November 2005
3. 2,3,4,5-bis(2-butylene) tetrahydro-2-furaldehyde [repellent-11]	X					Prohibited since November 2005

Active Ingredient	EPA <sup>1</sup>	European Union <sup>2</sup>	POP <sup>3</sup>	PIC <sup>4</sup>	PAN Dirty Dozen <sup>5</sup>	SAN Regulatory Status
4. 2,4,5-T (2,4,5-trichlorophenoxyacetic acid) and its salts and esters ( <i>dioxin contamination</i> )	X	X		X	X	Prohibited since November 2005
5. 2,4,5-TCP ( <i>potassium 2,4,5-trichlorophenate</i> )	X					Prohibited since November 2005
6. acephate		X				Prohibited since November 2005
7. alachlor		X		X		Prohibited since July 2011
8. aldicarb				X	X	Prohibited since November 2005
9. aldrin	X	X	X	X	X	Prohibited since November 2005
10. alpha HCH ( <i>alpha-hexachlorocyclohexane</i> )			X			3-year phase-out (limit June 30, 2012)
11. amitraz *		X				Prohibited since November 2005
12. arsenic compounds ( <i>EPA: arsenic trioxide; calcium, copper, lead and sodium arsenate; sodium arsenite</i> )	X	X				Prohibited since November 2005
13. atrazine		X				Prohibited since November 2005
14. beta HCH ( <i>beta-hexachlorocyclohexane</i> )			X			3-year phase-out (limit June 30, 2012)
15. binapacryl	X	X		X		Prohibited since November 2005
16. bromoxynil	X					Prohibited since November 2005
17. butylate	X					Prohibited since November 2005
18. cadmium and its compounds	X					Prohibited since November 2005
19. cadusafos ( <i>ebufos</i> )		X				4-year phase-out (limit June 30, 2012)
20. captafol	X (granular only)	X		X		Prohibited since November 2005
21. carbaryl		X				4-year phase-out (limit June 30, 2012)
22. carbofuran	X	X				Prohibited since July 2011 for formulations other than granular ones - already Prohibited since November 2005
23. carbon tetrachloride	X					Prohibited since November 2005
24. carbosulfan		X				Prohibited since July 2011
25. chloranil	X					Prohibited since November 2005
26. chlordane	X	X	X	X	X	Prohibited since November 2005

\* Its use is only permitted on cattle farms for bovine cattle's tick control and with aspersion methods directly applied on the animals through knapsack sprayer bathing or with aspersion infrastructure assuring that the product does not contaminate soils, groundwater, terrestrial or aquatic ecosystems. Submersion baths are not an approved method, because they generate an important amount of wastewater with this chemical and hence increasing the risk of soil or water body contamination.

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27. chlordecone ( <i>kepone</i> )	X	X	X			Prohibited since November 2005
28. chlordimeform	X	X		X	X	Prohibited since November 2005
29. chlorfenapyr		X				Prohibited since November 2005
30. chlorobenzilate	X	X		X	X	Prohibited since November 2005
31. chloromethoxypropyl-mercuric-acetate ( <i>CPMA</i> )	X					Prohibited since November 2005
32. chlozolate		X				Prohibited since November 2005
33. cyhalothrine ( <i>but not lambda isomers of cyhalothrin</i> )		X				Prohibited since November 2005
34. daminozide ( <i>alar</i> ) ( <i>only prohibited for food crops</i> )	X					Prohibited since November 2005
35. DBCP	X				X	Prohibited since November 2005
36. DDT	X	X	X	X	X	Prohibited since November 2005
37. dicofol containing less than 78% p,p'-Dicofol or >1 g/kg of DDT and DDT related compounds		X				Prohibited since November 2005
38. dieldrin	X	X	X	X	X	Prohibited since November 2005
39. dimethenamid		X				Prohibited since July 2011
40. dinoseb, its acetate and dinoseb salts	X	X		X		Prohibited since November 2005
41. dinoterb		X				Prohibited since November 2005
42. di (phenylmercury) dodecenylo succinate ( <i>PMDS</i> )	X					Prohibited since November 2005
43. DNOC (dinitro-ortho-cresol) and its salts ( <i>ammonium, potassium, sodium</i> )	X	X		X	X	Prohibited since November 2005
44. Dustable powder formulations containing a combination of: <u>benomyl</u> ≥ 7%, <u>carbofuran</u> ≥ 10%, <u>thiram</u> ≥ 5% ( <i>PIC: 15%</i> )		X		X		Prohibited since November 2005
45. endosulfan	X	X	X	X		4-year phase-out (limit June 30, 2012)
46. endrin	X	X	X		X	Prohibited since November 2005
47. EPN	X					Prohibited since November 2005
48. ethylene oxide ( <i>oxirane</i> )	X	X		X		Prohibited since November 2005
49. ethyl hexyleneglycol	X					Prohibited since November 2005
50. fenthion		X				Prohibited since November 2005
51. fentin acetate		X				Prohibited since November 2005
52. fentin hydroxide		X				Prohibited since November 2005
53. fenvalerate		X				Prohibited since November 2005

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54. ferbam		X				Prohibited since November 2005
55. fluoroacetamide	X	X		X		Prohibited since November 2005
56. HCH mixed isomers (containing less than 99.0% of the gamma isomer)		X		X	X	Prohibited since November 2005
57. heptachlor	X	X	X	X	X	Prohibited since November 2005
58. hexachlorobenzene (HCB)	X	X	X	X	X	Prohibited since November 2005
59. leptophos	X					Prohibited since November 2005
60. lindane ( <i>gamma</i> -HCH)	X	X		X	X	Prohibited since November 2005
61. maleic hydrazide and its salts, other than choline, potassium and sodium salts; choline, potassium and sodium salts; maleic hydrazide containing more than 1 mg/kg of free hydrazine expressed on the basis of the acid equivalent		X				Prohibited since November 2005
62. Mercury and its compounds (including mercuric oxide, mercurous chloride (calomel), phenylmercury acetate (PMA), phenylmercuric oleate (PMO) other inorganic mercury compounds: alkyl mercury, alkoxyalkyl and aryl mercury compounds)	X	X		X		Prohibited since November 2005
63. methamidophos	X 600 g/l (SL) formulation and higher	X		X 600 g/l (SL) formulation and higher		Prohibited since November 2005
64. methyl parathion ( <i>parathion methyl</i> )	X	X		X	X	Prohibited since November 2005
65. mevinphos	X					Prohibited since November 2005
66. mirex	X	X	X			Prohibited since November 2005
67. monocrotophos	X	X		X		Prohibited since November 2005
68. monolinuron		X				Prohibited since November 2005
69. monuron		X				Prohibited since November 2005
70. nitrofen	X	X				Prohibited since November 2005
71. nonylphenol ethoxylates		X				Prohibited since July 2011
72. OMPA ( <i>octamethylpyrophosphoramide</i> )	X					Prohibited since November 2005
73. oxydemeton-methyl		X				Prohibited since July 2011

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74. paraquat					X	Prohibited since November 2005
75. parathion	X	X		X	X	Prohibited since November 2005
76. pentachlorobenzene			X			3-year phase-out (limit June 30, 2012)
77. pentachlorophenol (PCP) and its salts and esters	X	X		X	X	Prohibited since November 2005
78. permethrin		X				Prohibited since November 2005
79. phosalone		X				Prohibited since July 2011
80. phosphamidon	X ≥ 1000 g/l (SL) formulation	X		X ≥ 1000 g/l (SL) formulation		Prohibited since November 2005
81. polychlorinated biphenyls PCB (except mono-and dichlorinated)			X			Prohibited since November 2005
82. propham		X				Prohibited since November 2005
83. pyrazophos		X				Prohibited since November 2005
84. pyriminil (vacor)	X					Prohibited since November 2005
85. quitozene		X				Prohibited since November 2005
86. safrole	X					Prohibited since November 2005
87. silvex	X					Prohibited since November 2005
88. simazine		X				Prohibited since November 2005
89. TDE	X					Prohibited since November 2005
90. technazene		X				Prohibited since November 2005
91. terpene polychlorinates (strobane)	X					Prohibited since November 2005
92. thallium sulphate	X	X				Prohibited since November 2005
93. thiodicarb		X				Prohibited since July 2011
94. toxaphene (camphechlor)	X	X	X	X	X	Prohibited since November 2005
95. triazophos		X				Prohibited since July 2011
96. trichlorfon		X				Prohibited since July 2011
97. triorganostannic compounds (tributyltin compounds)	X	X				Prohibited since November 2005
98. vinyl chloride	X					Prohibited since November 2005
99. zineb		X				Prohibited since November 2005

<sup>1</sup> U.S. List of "Banned" or "Severely Restricted" Pesticides; <sup>2</sup> Pesticides banned or severely restricted in EU as a consequence of the application of Directive 79/117/EEC, Council Regulation 805/2004/EC and Directive 91/414/EEC; <sup>3</sup> Stockholm Convention on Persistent Organic Pollutants; <sup>4</sup> Rotterdam Convention on Prior Informed Consent; <sup>5</sup> Pesticide Action Network