

Pesticides potentially used on cocoa - active ingredients, 2011-02-27

See explanations under the table

Active ingredient	Effect	Approved in EU	US EPA (cocoa)	Approved for use on cocoa in						EU (t) MRL	EU default	Russia	US	Canada	Japan	MRL:	
				Camroon	Cdl	Ghana	Nigeria	Indonesia	Brazil							Australia	
<i>Used on the farm</i>																	
2,4-D	H	Y			Y			Y		0.1					(0,01)		
Acephate	I	N						Y		0.05					(0,01)		
Acetamiprid	I	Y			Y					0.1					(0,01)		
Aldrin	I	N								0.05 incl dieldrin					0,1 incl dieldrin		
Allethrin (Esbiothrin)	I	N									0.01				(0,01)		
Ametryn	H	N									0.01				(0,01)		
Amitraz	I	N								0.1					(0,01)		
Atrazine	H	N								0.1					(0,01)		
Azinphos-methyl	I	N								0.1					(0,01)		
Azoxystrobin	F	Y								0.1					(0,01)		
Benalaxyl	F	Y								0.1					(0,01)		
Benomyl	F	N						Y		0.1					(0,01)		
Bentazone	H	Y								0.1					0.02		
Bifenthrin	I	N, re-submitted			Y					0.1					0.1		
Butocarboxim	I	N									0.01						
Captafol	F	N								0.1					nd		
Captan	F	Y								0.05					(0,01)		
Carbaryl	I	N								0.1					0.1		
Carbendazim	F	Y								0.1					(0,01)		
Carbofuran	I	N								0.05					0.1		
Carbosulfan	I	N						Y		0.1					0.05		
Carboxin	F	N, re-submitted								0.05					(0,01)		
Cartap	I	N			Y						0.01				(0,01)		
Chlordan	I	N								0.02							
Chlorfluazuron	I	N						Y			0.01						
Chlorothalonil	F	Y	Y							0.1			0.05		0.05		
Chlorpyrifos	I	Y					Y	Y		0.1					0,05		
Cinosulfuron	H	N									0.01						
Copper hydroxide	F	Y	Exempt		Y		Y	Y	WR	50 as Cu			Exempt		(0,01)		
Copper oxide	F	Y	Exempt		Y		Y		WR	50 as Cu			Exempt		(0,01)		
Copper oxychloride	F	Y	Exempt		Y			Y	WR	50 as Cu			Exempt		(0,01)		
Copper oxysulphate	F	Y						Y		50 as Cu							
Copper sulphate	F	Y	Exempt						WR	50 as Cu			Exempt		(0,01)		
Cyfluthrin, beta	I	Y						Y		0.1							
Cyhalothrin	I	N									0.01				(0,01)		
Cyhalothrin, gamma	I	Pending						Y			0.0						
Cyhalothrin, lambda	I	Y			Y			Y		0.05					(0,01)		
Cymoxanil	F	Y								0.05					0.05		
Cypermethrin	I	Y						Y		0.1 sum isomers					0.03		
Cypermethrin, alfa	I	Y						Y		0.1 sum isomers							

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				Camroon	Cdl	Ghana	Nigeria	Indonesia	Brazil							Australia	
Cypermethrin, beta	I	N						Y		0.1 sum isomers							
Cypermethrin, tetra?	I	N						Y		0.1 sum isomers							
Cyproconazol	F	N, re- submitted								0.05							
Dazomet	H	N, re- submitted								0.02					(0,01)		
DDT	I	N								0.5		0.15	1.0		0.05		
Deltamethrin	I	Y			Y			Y		0.05		0.01			0,05 incl tralomethrin		
Diazinon	I	N			Y			Y		0.02					0.05		
Dichlorvos	I	N							WR	0.02					0,5 incl naled	5	
Dieldrin	I	N								0.05 incl aldrin					0.1 incl aldrin		
Difenoconazole	F	Y								0.05					(0,01)		
Dimethoate	I	Y								0.05					0.05		
Dimethomorph	F	Y								0.05					(0,01)		
Dioxacarb	I	N									0.01				(0,01)		
Diquat	H	Y								0.1					(0,01)		
Diuron	H	Y						Y		0.2					0,02		
Endosulfan	I	N								0.1					0.1		
Endrin	I	N								0.01							
Esfenvalerate	I	Y						Y		0.05							
Etofenprox	I	Y						Y		0.01							
Fenamiphos	I	Y								0.05					(0,01)		
Fenitrothion	I	N						Y		0.2					0.1	0.1	
Fenobucarb (BPMC)	I	N			Y			Y			0.01				0.02		
Fenpropathrin	I	N						Y		0.02							
Fentin	F	N								0.1					0.1	0.1	
Fenthion	I	N						Y		0.1							
Fenvalerate	I	N						Y		0.05					(0,01)		
Fipronil	I	Y						Y		0.005					0.01		
Fluazifop-p-butyl	H	N, re- submitted								0.1							
Fluroxypyr	H	Y						Y		0.1					(0,01)		
Flutolanil ^a	F	Y								0.05					(0,01)		
Folpet	F	Y								0.05					(0,01)		
Fomesafen	H	N								0.02					(0,01)		
Fosetyl	F	Y								2.0					0.5		
Glufosinate-Ammonium	H	Y						Y		0.1					(0,01)		
Glyphosate	H	Y	Y		Y					0.1			0.2		0.2		
Hexaconazole	F	N								0.05					(0,01)		
Hydrogen Cyanide	I	N									0.01			25	30		
Imidachloprid	I	Y			Y					0.05					0.05		
Isazofos	I	N									0.01						
Lindane	I	N								1		0.5	0.5		0.1		
Malathion	I	Y								0.5					0.5		
Mancozeb	F	Y						Y		0.1 dithio- carbammates as CS2					0.02(Dithio- carbammates)		

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				Camroon	Cdl	Ghana	Nigeria	Indonesia	Brazil							Australia	
Mandipropamide	F	Pending			Y					0.02					(0,01)		
Maneb	F	Y								0.1 dithio-carbamates as CS2					0.02(Dithio-carbamates)		
MCPA	H	Y								0.1					(0,01)		
Mefenoxam (Metalaxyl-M)	F	Y			Y		Y	Y		0.1					0.2		
Metalaxyl (unresolved)	F	Y			Y					0.1					0.2		
Metam	I	N, re-submitted								0.02					(0,01)		
Methamidophos	I	N								0.02					(0,01)		
Methidation	I	N						Y		0.1							
Methomyl	I	Y						Y		0.1					0,05 incl thiodicarb		
Metiram	F	Y						Y		0.1 dithio-carbamates as CS2							
Metsulfuron	H	Y								0.1					(0,01)		
Monocrotophos	I	N								0.1					0.02		
MSMA (methyl arsonic acid)	H	N									0.01				(0,01)		
Novaluron	I	Pending								0.01					(0,01)		
Oxadiazon	H	Y								0.05					(0,01)		
Oxadixyl	F	N								0.02							
Oxamyl	I	Y								0.02					(0,01)		
Oxyfluorfen	H	N, re-submitted	Y					Y		0.05			0.05		0.05		
Paclobutrazol	H	N, re-submitted						Y		0.02							
Paraquat	H	N	Y					Y		0.05			0.05		0.05		
Parathion methyl	I	N								0.05					(0,01)		
Pendimethalin	H	Y								0.1					(0,01)		
Permethrin	I	N						Y		0.1					0.05		
Phosphoric acid	F	N						Y			0.01						
Picloram	H	Y								0.01					(0,01)		
Piperonyl butoxide	Synergist	Y, not a pesticide								No limit, synergist				8	8		
Pirimicarb	I	Y								0.05					0.05		
Pirimiphos methyl	I	Y								0.05					0.05		
Profenofos	I	N								0.1					(0,01)		
Promecarb	I	N									0.01				(0,01)		
Propanil	H	N, re-submitted								0.1					(0,01)		
Propargite	I	N, re-submitted								0.02					0.05		
Propiconazole	F	Y								0.1					(0,01)		
Propineb	F	Y						Y		0.1 dithio-carbamates as CS2							
Propoxur	I	N			Y			Y	WR	0.1					(0,01)		
Pyrethrins	I	Y							WR	0.5				1	(0,01)		
Pyrifenox	F	N									0.01				(0,01)		
Pyriproxyfen	I	Y	Y							0.05			0.02		(0,01)		
Quinalphos	I	N								0.1							
Quizalofop-ethyl	H	Y								0.05							

Active ingredient	Effect	Approved in EU	US EPA (cocoa)	Approved for use on cocoa in						EU (t) MRL	EU default	Russia	US	Canada	Japan	MRL:	
				Camroon	Cdl	Ghana	Nigeria	Indonesia	Brazil							Australia	
Readyshield 75 WSG (unknown AI)								Y									
Simazine	H	N								0.05					(0,01)		
Tebuconazol	F	Y								0.05					(0,01)		
Terbufos	I	N								0.01					0.01		
Tebuthiuron	H	N						Y			0.01						
Terbuthylazine	H	N, re-submitted								0.05							
Thiacloprid	I	Y			Y					0.05					0.02		
Thiamethoxam	I	Y			Y		Y	Y		0.05					(0,01)		
Thiodicarb	I	N						Y		0.1							
Thiophanate-methyl	F	Y								0.1							
Thiram	F	Y								0.1 dithio-carbamates as CS2							
Tralomehrin	I	N						Y			0.01						
Triadimefon	F	N						Y		0.2					(0,01)		
Triadimenol	F	Y						Y		0.2					(0,01)		
Trichlopyr	H	Y								0.1					0.03		
Trichlorphon	I	N								0.1					(0,01)		
Tridemorph	F	N								0.1					(0,01)		
Trifloxystrobin	F	Y								0.05					(0,01)		
Triazophos	I	N						Y		0.02							
Zineb	F	N									0.01				0.02(Dithio-carbamates)		

Active ingredient	Effect	Approved	US EPA	Approved for use on cocoa in						MRL:						
		in EU	(cocoa)	Camroon	Cdl	Ghana	Nigeria	Indonesia	Brazil	EU (t) MRL	EU default	Russia	US	Canada	Japan	Australia
Used in post harvest and in warehouses																
Aluminium phosphide	I	Y	Y							0.05			0.1		0,01 as hydrogen phosphide	∫
Chlorpyrifos	I	Y						Y	NS	0.1					0.05	
Cypermethrin	I	Y						Y	NS	0.1					0.03	
Deltamethrin	I	Y						Y	NS	0.05		0.01			0,05 incl tralomethrin	
Fenithrothion	I	N						Y	NS	0.2					0.1	0.1
Isoprocarb	I	N						Y	NP		0.01				(0,01)	
Magnesium phosphide	I	Y								0.05					0,01 as hydrogen phosphide	∫
Malathion	I	Y								0.5					0.5	
Methylbromide	I	N	Y, time limited							70 (Br)	0.01	50 (Br)	50 (Br)		50 (Br)	
Permethrin	I	N						Y	NS	0.1					0.05	
Pirimiphos methyl	I	Y							NS	0.05					0.05	
Phosphine (see Al-phosphide and Mg-phosphide)	I	Y	Y							0.05		0.01	0.1		0.01	
Piperonyl butoxide	Synergist	Y, not a pesticide	Y							No limit, synergist			8		8	
Propylene Oxide		N	Y										300		300	
Pyrethrins	I	Y	Y						NS	0.5			1		(0,01)	
Tetramethrin	I	N							NS		0.01				(0,01)	

Approved in EU (column E)

Approval US EPA (column F)

Approved for use on cocoa (column G-L)

MRLs (column M-Y)

MRL Japan (column N)

Used different reports (column A-AK)

Y = Approved for use within EU

N = Not approved for use within EU

Pending = considered for EU approval

Positive list, only pesticides marked with Y can be used

Cdl Liste des pesticides homologues et autorises en Cote D'Ivoire Sep 2008

Nigeria list given by CRIV Jan 2009

Indonesia: "Pestisida Pertanian den Kehutanan", 2008

Brazil = WR = WITHOUT RESTRICTION Permitted for Cocoa -Positive List according Monography Revised 2008-10-16

Brazil = NS = NOT STABLISHED Permitted for Cocoa -Positive List according Monography Revised 2008-10-16

All MRLs are given in mg/kg

Japan: (0.01) is default value

Brazil = NP = Not Permitted for Cocoa -Positive List according Monography Revised 2008-10-16

Brazil = WR = WITHOUT RESTRICTION Permitted for Cocoa -Positive List according Monography Revised 2008-10-16

Brazil = NS = NOT STABLISHED Permitted for Cocoa -Positive List according Monography Revised 2008-10-16

x(I) = reported by ICCO, 14 Feb, 2007 x(I) = in earlier reoprts from ICCO * = information from report 1998

x(RB) = reported by Roy Bateman (x) = reported use in the country, not specific for cocoa

Active ingredient	Used according to different reports (see footnote)												
	Thailand	Brazil	Cameroon	Cdl	Ghana	Nigeria	Brazil	Ecuador	Trinidad	Venezuela	Indonesia	Malaysia	PNG
Cypermethrin, beta													
Cypermethrin, tetra?													
Cyproconazol													
Dazomet		NP				x				<i>x(l)</i>			
DDT	0.01	NP				(x)*							
Deltamethrin		0.2	x	<i>x(l)</i>		<i>x(l)</i>	<i>x(l)</i>	<i>x(l)</i>			<i>x(RB)</i>	<i>x(l)</i>	
Diazinon		NP	<i>x(l)</i>	<i>x(l)</i>	x	<i>x(l)</i>		<i>x(l)</i>	<i>x(l)</i>	x	? <i>(RB)</i>		
Dichlorvos		WR											<i>x(l)</i>
Dieldrin	0.05	NP				(x)*							
Difenoconazole		NP						<i>x(l)</i>					
Dimethoate		NP	x	<i>x(l)</i>	x	x		<i>x(l)</i>	<i>x(l)</i>	<i>x(l)</i>			
Dimethomorph		NP	<i>x(l)</i>										
Dioxacarb		NP				x							
Diquat		NP								<i>x(l)</i>			
Diuron		0.1					<i>x(l)</i>	<i>x(l)</i>	<i>x(l)</i>				
Endosulfan		0.01	<i>x(l)</i>	x	<i>x(l)</i>	<i>x(l)</i>	<i>x(l)</i>				<i>x(RB)</i>		
Endrin	0.01												
Esfenvalerate													
Etofenprox													
Fenamiphos		0.1											
Fenitrothion		NP		x		x							
Fenobucarb (BPMC)		NP	<i>x(l)</i>	<i>x(l)</i>	<i>x(l)</i>								
Fenpropathrin													
Fentin		0.1											
Fenthion													
Fenvalerate		NP			<i>x(l)</i>						? <i>(RB)</i>		
Fipronil		NP						<i>x(l)</i>			x		
Fluazifop-p-butyl													
Fluroxypyr		NP										<i>x(l)</i>	
Flutolanil ^a		NP											
Folpet		NP						x					
Fomesafen		NP						<i>x(l)</i>					
Fosetyl		NP						<i>x(l)</i>					
Glufosinate-Ammonium		NP		x								<i>x(l)</i>	
Glyphosate		0.1	<i>x(l)</i>	<i>x(l)</i>		<i>x(l)</i>	<i>x(l)</i>		<i>x(l)</i>	<i>x(l)</i>		<i>x(l)</i>	<i>x(l)</i>
Hexaconazole		NP						<i>x(l)</i>					
Hydrogen Cyanide		NP											
Imidachloprid		NP	<i>x(l)</i>	<i>x(l)</i>	<i>x(l)</i>								
Isazofos													
Lindane		NP	x	x	<i>x(l)</i>	x*							
Malathion		0.2					<i>x(l)</i>	<i>x(l)</i>	<i>x(l)</i>	<i>x(l)</i>			
Mancozeb		NP	<i>x(l)</i>				<i>x(l)</i>		<i>x(l)</i>	<i>x(l)</i>		<i>x(l)</i>	

Active ingredient	Thailand	Brazil	Used according to different reports (see footnote)										
			Camroon	Cdl	Ghana	Nigeria	Brazil	Ecuador	Trinidad	Venezuela	Indonesia	Malaysia	PNG
<i>Used in post harvest and in warehouse</i>													
Aluminium phosphide		0.01		x(l)	x(l)	x(l)					x(l)		x(l)
Chlorpyrifos		NS			x(l)								
Cypermethrin		NS									x(l)		
Deltamethrin		NS									x(l)		
Fenithrothion		NS			x(l)								
Isoprocarb		NP				x(l)							
Magnesium phosphide		0.01		x(l)									x(l)
Malathion		0.2						x(l)	x(l)	x(l)	x(l)		
Methylbromide		NP											
Permethrin		NS			x(l)								
Pirimiphos methyl		NS				x(l)							
Phosphine (see Al-phosphide and Mg-phosphide)		0.01											
Piperonyl butoxide													
Propylene Oxide													
Pyrethrins		NS											
Tetramethrin		NS			x(l)								

Approved in EU (column E)

Approval US EPA (column F)

Approved for use on cocoa (column G-

MRLs (column M-Y)

MRL Japan (column N)

Used different reports (column A-AK)