



EU PESTICIDES MRLs

Pesticides EU-MRLs

Regulation (EC) No 396/2005

updated on:

18/04/2014

02/04/2014

28/01/2014

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THE **CENTRAL LAB THAI** PESTICIDE MULTI-RESIDUES TESTING ON:

Tasked on the Department of Agriculture (DOA) regulated pesticides-
List arranged on 27/07/2014

Specific Commodity: **0243020**

Kale

Common Name(s): **na**

Thai Name: **ผักคะน้า**

Scientific Name: *Brassica oleracea* convar. *Acephalea*

Product ID: **0200000**

Vegetables (Fresh or Frozen)

Commodity ID: **0240000**

(iv) Brassica Vegetables

Commodity: **0243000**

(c) Leafy Brassica

Examples of Related Varieties or other products included

in the definition to which the same MRL applies: **Borecole(curly kale), collards, Portuguese Kale, Portuguese cabbage, cow cabbage**

KALE



Chinese Kale



Portuguese
Kale



Borecole=Cow
Cabbage



Pesticide residues and maximum residue levels (mg/kg)

(*) Indicates lower limit of analytical determination

Chemical Family	#	Active Substances	MRL mg/kg (Old MRLs)	Remarks	Regulations and/or Directives					
					Year	No.	Legislation	Applicable from	Amendments	History
Organophosphorus	1	Azinphos-ethyl (F)	0.02*	Code Number: 0200000 - Vegetables (Fresh or Frozen)	2008	149	EC	01/09/2008	Annexes Reg. 396/2005 Annex II & Annex IIIB	
	2	Azinphos-methyl (F)	0.05*	EC No. 149/2008 Code Number: 0240000 - Brassica Vegetables	2008	839	EC	01/09/2008	Annexes Reg. 396/2005 Annex II & Annex IIIB	Reg.(EC) No. 149/2008
	3	Chlorpyrifos (F)	0.05*	Code Number: 0243020 - Kale	2008	839	EC	01/09/2008	Annexes Reg. 396/2005 Annex II & Annex IIIB	Reg.(EC) No. 149/2008
	4	Chlorpyrifos-methyl (F)	0.05*	EC No. 149/2008 Code Number: 0240000 - Brassica Vegetables	2008	839	EC	01/09/2008	Annexes Reg. 396/2005 Annex II & Annex IIIB	Reg.(EC) No. 149/2008

5	Diazinon (F)	0.01*	Code Number: 0243020 - Kale	2013	834	EU	26/04/2013	Annexes Reg. 396/2005 Annex II & Annex IIIB	Reg.(EU) No. 899/2012 Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008
6	Dichlorvos (DDVP)	0.01*	EC No. 149/2008 Code Number: 0200000 - Vegetables (Fresh or Frozen)	2008	839	EC	01/09/2008	Annexes Reg.396/2005 Annex II Annex IIIB	Reg.(EC) No. 149/2008
7	Dicrotophos	Default Value 0.01	Not in the EU List						
8	Dimethoate (sum of dimethoate and omethoate expressed as dimethoate)	0.02*	Code Number: 0240000 - Brassica Vegetables	2009	1097	EC	07/06/2010	Annexes Reg. 396/2005 Annex II Annex IIIB	Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008
9	EPN	Default Value 0.01	Not in the EU List						

10	Ethion	0.01*	Code Number: 0240000 - Brassica Vegetables	2011	310	EU	21/10/2011	Annexes Reg. 396/2005 Annex II Annex IIIB	Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008
11	Fenitrothion	0.01*	Code Number: 0240000 - Brassica Vegetables	2012	899	EU	26/04/2013	Annexes Reg. 396/2005 Annex II Annex IIIB	Reg.(EU) No. 459/2010 Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008
12	Malathion (sum of malathion and malaaxon expressed as malathion)	0.02*	Code Number: 0200000 - Vegetables (Fresh or Frozen)	2012	270	EU	28/03/2012	Annexes Reg. 396/2005 Annex II Annex IIIA	Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008
13	Methamidophos	0.01* (0.02)	Code Number: 0240000 - Brassica Vegetables	2012	899	EU	26/04/2013	Annexes Reg. 396/2005 Annex II Annex IIIB	Reg.(EC) No. 1097/2009 Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008
14	Methidathion	0.02*	Code Number: 0240000 - Brassica Vegetables	2011	310	EU	21/10/2011	Annexes Reg. 396/2005 Annex II Annex IIIB	Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008

15	Mevinphos (sum of E- and Z-isomers)	0.01*	Code Number: 0200000 - Vegetables (Fresh or Frozen)	2008	149	EC	01/09/2008	Annexes Reg. 396/2005 Annex II Annex IIIB	
16	Monocrotophos	0.01* (0.01 DV)	Code Number: 0240000 - Brassica Vegetables	2012	899	EU	26/04/2013	Annexes Reg. 396/2005 Annex V	Reg.(EC) No. 149/2008
17	Omethoate	See Dimethoate	Not in the EU List						
18	Parathion (F)	0.05*	EC No. 149/2008 Code Number: 0200000 - Vegetables (Fresh or Frozen)	2008	839	EC	01/09/2008	Annexes Reg. 396/2005 Annex II Annex IIIB	Reg.(EC) No. 149/2008
19	Parathion-methyl (sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl)	0.01* (0.02*)	Code Number: 0240000 - Brassica Vegetables	2012	899	EU	26/04/2013	Annexes Reg. 396/2005 Annex II Annex IIIB	Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008

20	Phosalone	0.01* (0.05*)	Code Number: 0240000 - Brassica Vegetables	2012	899	EU	26/04/2013	Annexes Reg. 396/2005 Annex IIIA	Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008
21	Pirimiphos-ethyl	Default Value 0.01	Not in the EU List						
22	Pirimiphos-methyl (F)	0.05*	EC No. 149/2008 Code Number: 0243000 - Leafy Brassica	2008	839	EC	01/09/2008	Annexes Reg. 396/2005 Annex II	Reg.(EC) No. 149/2008
23	Profenofos (F)	0.01* (0.05*)	Code Number: 0240000 - Brassica Vegetables	2013	834	EU	01/09/2013	Annexes Reg. 396/2005 Annex II	Reg.(EU) No. 899/2012 Reg.(EU) No. 459/2010 Reg.(EC) No. 149/2008
24	Prothiofos	Default Value 0.01	Not in the EU List						

	25	Triazophos (F)	0.01*	Code Number: 0200000 - Vegetables (Fresh or Frozen)	2012	441	EU	14/06/2012	Annexes Reg. 396/2005 Annex II Annex IIIB	Reg.(EC) No. 149/2008
Carbamates	1	Aldicarb (sum of aldicarb, its sulfoxide and its sulfone, expressed as aldicarb)	0.02*	Code Number: 0240000 - Brassica Vegetables	2011	310	EU	21/10/2011	Annexes Reg. 396/2005 Annex II Annex IIIB	Reg.(EC) No. 149/2008
	2	Carbaryl (F)	0.01* (0.05*)	Code Number: 0240000 - Brassica Vegetables	2012	899	EU	26/04/2013	Annexes Reg. 396/2005 Annex II Annex IIIB	Reg.(EC) No. 149/2008
	3	Carbofuran (sum of carbofuran and 3-hydroxy-carbofuran expressed as carbofuran) (R)	0.01* (0.02*)	Code Number: 0240000 - Brassica Vegetables	2012	899	EU	26/04/2013	Annexes Reg. 396/2005 Annex II Annex IIIB	Reg.(EU) No. 520/2011 Reg.(EC) No. 149/2008
	4	Carbosulfan	0.01*	Code Number: 0240000 - Brassica Vegetables	2012	899	EU	26/04/2013	Annexes Reg. 396/2005 Annex II Annex IIIB	Reg.(EU) No. 520/2011 Reg.(EC) No. 149/2008

5	Fenobucarb (BPMC)	Default Value 0.01	Not in the EU List						
6	Indoxacarb (sum of indoxacarb and its R enantiomer) (F)	0.4	Code Number: 0243020 - Kale	2014	51	EU	02/02/2014	Annexes Reg. 396/2005 Annex II	Reg.(EU) No. 668/2013 Reg.(EU) No. 35/2013 Reg.(EU) No. 520/2011 Reg.(EU) No. 459/2010 Reg.(EC) No. 1050/2009 Reg.(EC) No. 822/2009 Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008
7	Isoprocarb	Default Value 0.01	Not in the EU List						
8	Methiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb)	0.1*	Code Number: 0240000 - Brassica Vegetables	2008	839	EC	01/09/2008	Annexes Reg. 396/2005 Annex IIIA	Reg.(EC) No. 149/2008
9	Methomyl and Thiodicarb (sum of methomyl and thiodicarb expressed as methomyl)	0.02*	Code Number: 0243000 - Leafy Brassica	2010	459	EU	29/05/2010	Annexes Reg. 396/2005 Annex II Annex IIIB	Reg.(EC) No. 1097/2009 Reg.(EC) No. 149/2008

	10	Oxamyl	0.01*	Code Number: 0240000 - Brassica Vegetables	2008	149	EC	01/09/2008	Annexes Reg. 396/2005 Annex II Annex IIIB	
	11	Promecarb	Default Value 0.01	Not in the EU List						
Pyrethroids	1	Bifenthrin (F)	0.05*	Code Number: 0243000 - Leafy Brassica	2012	441	EU	14/06/2012	Annexes Reg. 396/2005 Annex II Annex IIIB	Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008
	2	Cyfluthrin (cyfluthrin including other mixtures of constituent isomers (sum of isomers)) (F)	0.3	Code Number: 0243000 - Leafy Brassica	2010	893	EU	10/10/2010	Annexes Reg. 396/2005 Annex II Annex IIIB	Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008
	3	Lambda-Cyhalothrin (F) (R)	1	Code Number: 0243000 - Leafy Brassica	2013	834	EU	01/09/2013	Annexes Reg. 396/2005 Annex II Annex IIIB	Reg.(EU) No. 459/2010 Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008

	4	Cypermethrin (cypermethrin including other mixtures of constituent isomers (sum of isomers)) (F)	1	Code Number: 0243000 - Leafy Brassica	2011	520	EU	28/05/2011	Annexes Reg. 396/2005 Annex II Annex IIIB	Reg.(EU) No. 459/2010 Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008
	5	Deltamethrin (cis-deltamethrin) (F)	0.5	EU No. 524/2011 Code Number: 0243000 - Leafy Brassica	2012	441	EU	14/06/2012	Annexes Reg. 396/2005 Annex II Annex IIIB	Reg.(EU) No. 524/2011 Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008
	6	Fenvalerate and Esfenvalerate (Sum of RR & SS isomers) (F)	0.02*	Code Number: 0243000 - Leafy Brassica	2008	839	EC	01/09/2008	Annexes Reg. 396/2005 Annex II	Reg.(EC) No. 149/2008
	7	Permethrin (sum of isomers)	0.05*	Code Number: 0200000 - Vegetables (Fresh or Frozen)	2008	839	EC	01/09/2008	Annexes Reg. 396/2005 Annex II	
Organochlorines	1	Aldrin and Dieldrin (Aldrin and dieldrin combined as dieldrin) (F)	0.01*	Code Number: 0240000 - Brassica Vegetables	2008	839	EC	01/09/2008	Annexes Reg. 396/2005 Annex II	Reg.(EC) No. 149/2008

2	Chlordane (sum of cis-and trans-chlordane) (F) (R)	0.01*	Code Number: 0200000 - Vegetables (Fresh or Frozen)	2008	149	EC	01/09/2008	Annexes Reg. 396/2005 Annex II Annex IIIB	
3	DDT (sum of p,p'-DDT, o,p'-DDT, p,p'-DDE and p,p'-TDE (DDD) expressed as DDT) (F)	0.05*	Code Number: 0200000 - Vegetables (Fresh or Frozen)	2008	149	EC	01/09/2008	Annexes Reg. 396/2005 Annex II Annex IIIB	
4	Dicofol (sum of p,p' and o,p' isomers) (F)	0.02*	Code Number: 0240000 - Brassica Vegetables	2012	899	EU	26/04/2013	Annexes Reg. 396/2005 Annex II & Annex IIIB	Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008
5	Endrin (F)	0.01*	Code Number: 0200000 - Vegetables (Fresh or Frozen)	2008	149	EC	01/09/2008	Annexes Reg. 396/2005 Annex II Annex IIIB	
6	Endosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expresses as endosulfan) (F)	0.05*	Code Number: 0240000 - Brassica Vegetables	2011	310	EU	21/10/2011	Annexes Reg. 396/2005 Annex II Annex IIIB	Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008

	7	Heptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor) (F)	0.01*	Code Number: 0200000 - Vegetables (Fresh or Frozen)	2008	149	EC	01/09/2008	Annexes Reg. 396/2005 Annex II Annex IIIB	
	8	Hexachlorociclohexane (HCH), sum of isomers, except the gamma isomer (F)	0.01*	Code Number: 0200000 - Vegetables (Fresh or Frozen)	2008	149	EC	01/09/2008	Annexes Reg. 396/2005 Annex II Annex IIIB	
	9	Lindane (Gamma isomer of hexachlorociclohexane (HCH) (F)	0.01*	Code Number: 0200000 - Vegetables (Fresh or Frozen)	2008	149	EC	01/09/2008	Annexes Reg. 396/2005 Annex II Annex IIIB	
Others	1	Abamectin (sum of avermectin B1a, avermectin B1b and delta-8,9 isomer of avermectin B1a) (F)	0.01*	Code Number: 0240000 - Brassica Vegetables	2011	508	EU	26/05/2011	Annexes Reg. 396/2005 Annex II & Annex IIIB	Reg.(EC) No. 149/2008
	2	Acephate	0.01*	Code Number: 0240000 - Brassica Vegetables	2012	899	EU	26/04/2013	Annexes Reg. 396/2005 Annex II & Annex IIIB	Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008

3	Acetamiprid (R)	0.01*	Code Number: 0243000 - Leafy Brassica	2013	500	EU	05/06/2013	Annexes Reg. 396/2005 Annex II	Reg.(EU) No. 978/2011 Reg.(EU) No. 508/2011 Reg.(EU) No. 750/2010 Reg.(EC) No. 1050/2009 Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008
4	Amitraz (amitraz including the metabolites containing the 2,4 -dimethylaniline moiety expressed as amitraz)	0.05*	Code Number: 0200000 - Vegetables (Fresh or Frozen)	2008	149	EC	01/09/2008	Annexes Reg. 396/2005 Annex II & Annex IIIB	
5	Carbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim) (R)	0.1*	Code Number: 0243000 - Leafy Brassica	2011	559	EU	01/01/2012	Annexes Reg. 396/2005 Annex II & Annex IIIB	Reg.(EU) No. 893/2010 Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008
6	Chlorfluazuron	Default Value 0.01	Not in the EU List						
7	Clothianidin	2	Code Number: 0243000 - Leafy Brassica	2013	500	EU	05/06/2013	Annexes Reg. 396/2005 Annex IIIA	Reg.(EU) No. 441/2012 Reg.(EU) No. 765/2010 Reg.(EC) No. 839/2008

8	Diflubenzuron (F) (R)	1	Code Number: 0240000 - Brassica Vegetables	2008	839	EC	01/09/2008	Annexes Reg. 396/2005 Annex IIIA	Reg.(EC) No. 149/2008
9	Dimethomorph (sum of isomers)	3	Code Number: 0243000 - Leafy Brassica	2014	51	EU	02/02/2014	Annexes Reg. 396/2005 Annex II	Reg.(EU) No. 668/2013 Reg.(EU) No. 35/2013 Reg.(EU) No. 322/2012 Reg.(EU) No. 978/2011 Reg.(EU) No. 812/2011 Reg.(EU) No. 508/2011 Reg.(EU) No. 750/2010 Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008
10	Dinotefuran	Default Value 0.01	Not in the EU List						
11	Etofenprox (F)	0.2	Code Number: 0243000 - Leafy Brassica	2013	293	EU	06/04/2013	Annexes Reg. 396/2005 Annex IIIA	Reg.(EC) No. 149/2008
12	Fipronil (sum fipronil + sulfone metabolite (MB46136) expressed as fipronil) (F)	0.005*	Code Number: 0243000 - Leafy Brassica	2010	750	EU	22/08/2010	Annexes Reg. 396/2005 Annex IIIA	Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008

13	Formetanate: Sum of formetanate and its salts expressed as formetanate(hydrochloride)	0.05*	Code Number: 0240000 - Brassica Vegetables	2008	149	EC	01/09/2008	Annexes Reg. 396/2005 Annex II	
14	Imidacloprid	0.3	Code Number: 0243020 - Kale	2010	893	EU	10/10/2010	Annexes Reg. 396/2005 Annex IIIA	Reg.(EU) No. 459/2010 Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008
15	Metalaxyl and metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers))	0.2	Code Number: 0243020 - Kale	2014	36	EU	10/02/2014	Annexes Reg. 396/2005 Annex II & Annex IIIB	Reg.(EU) No. 441/2012 Reg.(EC) No. 839/2008 Reg.(EC) No. 149/2008
16	Methoxychlor (F)	0.01*	Code Number: 0200000 - Vegetables (Fresh or Frozen)	2008	149	EC	01/09/2008	Annexes Reg. 396/2005 Annex II & Annex IIIB	
17	Prochloraz (sum of prochloraz and its metabolites containing the 2,4,6-Trichlorophenol moiety expressed as prochloraz)	0.05*	Code Number: 0240000 - Brassica Vegetables	2011	520	EU	28/05/2011	Annexes Reg. 396/2005 Annex II & Annex IIIB	Reg.(EC) No. 149/2008

18	Procymidone (R)	0.01*	Code Number: 0240000 - Brassica Vegetables	2012	899	EU	26/04/2013	Annexes Reg. 396/2005 Annex V	Reg.(EC) No. 1097/2009 Reg.(EC) No. 149/2008
19	Propiconazole	0.05*	Code Number: 0240000 - Brassica Vegetables	2013	500	EU	05/06/2013	Annexes Reg. 396/2005 Annex II & Annex IIIB	Reg.(EU) No. 270/2012 Reg.(EU) No. 524/2011 Reg.(EC) No. 149/2008
20	Quinalphos	0.05*	Code Number: 0200000 - Vegetables (Fresh or Frozen)	2008	149	EC	01/09/2008	Annexes Reg. 396/2005 Annex II & Annex IIIB	
21	Tetradifon	0.01*	Code Number: 0240000 - Brassica Vegetables	2011	310	EU	21/10/2011	Annexes Reg. 396/2005 Annex IIIA	Reg.(EC) No. 149/2008
22	Triadimefon and triadimenol (sum of triadimefon and triadimenol) (F)	0.1*	Code Number: 0240000 - Brassica Vegetables	2010	459	EU	29/05/2010	Annexes Reg. 396/2005 Annex II & Annex IIIB	Reg.(EC) No. 149/2008

	23	Triforine	0.01*	Code Number: 0240000 - Brassica Vegetables	2011	310	EU	21/10/2011	Annexes Reg. 396/2005 Annex II & Annex IIIB	Reg.(EC) No. 149/2008
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Footnotes:

(F) = Fat soluble

(R) = The residue definition differs for the following combinations pesticide-code number:

Carbofuran - Code 100000 except 1040000: 3-OH-carbofuran (free and conjugated) expressed as carbofuran

Chlordane Code 1000000: Sum of cis-and trans-isomers and oxychlordane expressed as chlordane

Lambda-Cyhalothrin -code 1000000 EXCEPT 1040000: Lambda-cyhalothrin, including other mixed isomeric constituents (sum of isomers)

Fenvalerate-codes 1011030, 1011040, 1012030, 1012040, 1013030, 1013040, 1014030, 1015030, 1015040, 1016030, 1016040, 1017030, 1017040: sum of fenvalerate (any ratio of constituent isomers including esfenvalerate) and CPIA (chlorophenyl isovaleric acid), expressed as fenvalerate

Acetamiprid - Code 1000000: Sum of acetamiprid and N-desmethyl-acetamiprid (IM-2-1), expressed as acetamiprid

Carbendazim - Code 1000000: Carbendazim and thiophanate-methyl, expressed as carbendazim

Diflubenzuron - Code 1000000: sum of Diflubenzuron and 4-chlorophenylurea expressed as Diflubenzuron

Procymidone - Code 1000000: Vinclozoline, iprodione, procymidone, sum of compounds and all metabolites containing the 3,5-dichloroaniline moiety expressed as 3,5 dichloroaniline