



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF AGRICULTURE  
**FERTILIZER AND PESTICIDE AUTHORITY**



# THE PHILIPPINE MRLs (MAXIMUM RESIDUE LIMITS) FOR MANGO

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## MESSAGE



Consumer safety and protection are the primordial concerns of the Department of Agriculture to promote the exports and acceptability of Philippine vegetables in the international market.

This could be achieved through the establishment and enforcement of Maximum Residue Limits (MRLs) for pesticide in agricultural crops. Our role in ensuring the quality and safety of our asparagus could only be realized if our advocacy for Good Agricultural Practice (GAP) will be strictly implemented by our farmers and exporters. The control and proper use of pesticide should be intensified to address the issue of excessive pesticide residues to ensure the acceptability of our asparagus both in the local and foreign markets.

This established MRL for asparagus will serve as a starting point for government and all concerned stakeholders to be fully aware of the importance of adhering to and complying with the international standards requirements to promote the competitiveness of our asparagus and ensure the protection of the general public.

**Mabuhay!**

  
ATTY. ARTHUR C. YAP  
Secretary 



## FOREWORD



The policy of the state calls for the protection of the consumer, promote its general welfare and to establish the standards of conduct for business industry to ensure the protection of health and safety of our people.

This publication on the Maximum Residue Limits (MRLs) for pesticide in asparagus is anchored to protect the health and welfare of the consumer. This is a collaborative effort of the Fertilizer and Pesticide Authority (FPA), the Department of Agriculture-Ginintuang Masaganang Ani-High Value Commercial Crops (DA-GMA-HVCC) and the Pesticide Industry Sector specifically CropLife Philippines.

These established MRLs for asparagus were based on the data generated by the respective pesticide registrant companies following the Good Agricultural Practices (GAP) principle.

We hope that these MRLs will promote the exportation and acceptability of our asparagus and enhance the trading and competitiveness of this commodity in the international market.

On behalf of the FPA, we would like to extend our appreciation and thanks to the Department of Agriculture, CropLife Philippines, Crop Protection Association of the Philippines (CPAP) and Philippine Integrated Crop Management Association (PICMA) for their support in this project.



**NORLITO R. GICANA, CESO IV**  
Executive Director

## **Definition of Terms**

**CODEX MRLs** are derived from estimation made by the FAO/WHO JMPR (*Joint FAO/WHO Meeting on Pesticide Residues*) through the following:

- Toxicological assessment of the pesticides and its residue
- Review of residue data from SPRT (Supervised Pesticide Residue Trials) and supervised uses including those reflecting national GAP.

**GAP (Good Agriculture Practice)** is the officially recommended or authorized usage of pesticides under practical conditions at any stage of production, storage, transport, distribution and processing of food, agricultural commodities and animal feed bearing in mind the variations in requirements within and between regions, which takes into account the minimum quantities necessary to achieve adequate control, applied in a manner so as to leave a residue which is the smallest amount of practicable and which is toxicologically acceptable. (**GREENBOOK**, FPA Pesticide Regulatory Policies and Implementing Guidelines, 2<sup>nd</sup> Edition 2001)

**Maximum Residue Limit (MRL), Definition by FPA Pesticide Regulatory Policies and implementing Guidelines** - is the maximum concentration of a pesticide residue resulting from the use of a pesticide according to Good Agricultural Practice that is recommended by the Codex Alimentarius Commission to be legally permitted or recognized as acceptable in or on a food, agricultural commodity, or animal feed, the concentration expressed in milligrams of pesticide residue per kilogram of the commodity. (**GREENBOOK**, FPA Pesticide Regulatory Policies and Implementing Guidelines, 2<sup>nd</sup> Edition 2001)

**Maximum Residue Limit (MRL)**, -is the conc. of a pesticide residue resulting from the use of a pesticide according to GAP that is recommended by the Codex Alimentarius Commission to be legally permitted or recognized as acceptable in or on a food, agricultural commodity, or animal feed, the concentration expressed in milligrams of pesticide per kilogram of the commodity. (Definition by CODEX)

**Parts per billion (ppb)** Ratio of amounts expressed as parts pesticide per one billion or  $10^9$  parts of sample. Strictly the quantities should be the same i.e. weight to weight (solids) or volume to volume (liquids or gases) e.g. 1 ppb = 1  $\mu\text{g}/\text{kg}$ . A common usage is for weight to volume but to avoid confusion it is recommended that the SI units are used rather than ppb; e.g.  $\mu\text{g}/\text{L}$  (Mills et al., 1993), (*U P A C Pure Appl. Chem.*, Vol. 68, No.5, pp. 1167-1193, 1996)

**Parts per million (ppm)** Ratio of amounts expressed as parts pesticide per one million or  $10^6$  parts of sample e.g. 1 ppm = 1 mg/kg. As with ppb it is recommended that SI units are used rather than ppm, particularly for weights to volume, (*U P A C Pure Appl. Chem.*, Vol. 68, No.5, pp. 1167-1193, 1996)

**Pesticide** is defined as any substance or product, or mixture thereof, including active ingredients, adjuvants and pesticide formulations intended to control, destroy, repel or mitigate directly or indirectly, any pest including insecticide, fungicide, bactericide, nematicide, herbicide, molluscicide, avicide, rodenticide, plant regulator, defoliant, dessicant and the like. (PD 1144)

**Pesticide Residue** – means any specified substances in food, agricultural commodities, or animal feed resulting from the use of pesticide. The term includes any derivatives of a pesticide, such as conversion products, metabolites, reaction products, and impurities considered to be of toxicological significance. (GREENBOOK)

**Positive list system** is controlled by Japanese Ministry of Health, Labor and Welfare, (MHLW) based on revised Food Sanitation Law (Law No.55, 2003), to protect citizens from being exposed to excess amount of agricultural chemicals from food and water to keep food safe by prohibiting the distribution of foods which contain agricultural chemicals above levels of maximum residue limits (MRLs). It applies to all food : all crops, milk, meat and eggs, fresh, frozen, processed food.  
Three categories in positive list system:

- Uniform limit - Limits that is unlikely to pose adverse health effects is determined as 0.01 ppm. It applies to Agricultural chemicals **without** MRL for any food and Agricultural chemicals **without** MRL for certain food
- Exempted substances- 65 substances, determined as chemicals which do not pose adverse effects.
- MRLs and provisional MRLs : 799 substances, Maximum residue limits (MRL) and provisional MRL are established as specification for food.

**Pre-harvest interval (PHI)** The time interval between the last application of a pesticide to a crop and harvest. (**U P A C Pure Appl. Chem.**, Vol. 68, No.5, pp. 1167-1193, 1996)

**Withholding period** Minimum permissible time between the last application of a pesticide to a crop (including pasture) and harvesting for human consumption or grazing with livestock. The minimum permissible time between the final application of a pesticide to an animal and the collection of eggs or milk, or slaughter, for human consumption. (**U P A C Pure Appl. Chem.**, Vol. 68, No.5, pp. 1167-1193, 1996)

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**FPA - Registered Pesticides for Mango Production**

ACTIVE INGREDIENT	BRAND NAME	COMPANY	PHILIPPINES	
			MRL (ppm)	PHI (Days)
<b>FUNGICIDES</b>				
Azoxystrobin	Amistar 25 SC	Syngenta Philippines, Inc.	1.0	3-7
Benomyl	Agchem Benomyl	Agchem Mfg. Inc.	2.0	14
	Agenomyl 50 WP	AgenVi Life Science, Inc.	2.0	14
	Agronomyl	United Agro Trade Corp.	2.0	14
	Agway 50 WP	Gamecore Enterprises	2.0	14
	Benlaki 50 WP	Vann Hawk Agro Chemicals, Inc.	2.0	14
	Benleaf 50 WP	RNE Chemical Trading	2.0	14
	Benlight	Access Agricare, Inc.	2.0	14
	Benolate 50 WP	Abigail Farm Supply	2.0	14
	Ben-On-Time	Monarch Agricultural, Inc.	2.0	14
	Benophyl 50 WP	PhilAgrow, Inc.	2.0	14
	Benostar 50 WP	Jardine Distribution, Inc.	2.0	14
	Benzyl 50 WP	Novo Chrisantis	2.0	14
	Classic 50 WP	United Linkages Marketing	2.0	14
	Cropguard 50 WP	Aitacrop Protection Corp.	2.0	14
	Everland Benomyl 50 WP	Everland Agri Corporation	2.0	14
	Elite Benomyl	Elite Biochemicals Corp.	2.0	14
	Fundazol 50 WP	International Veterinary & Agrochemicals, Inc. (IVA)	2.0	14

ACTIVE INGREDIENT	BRAND NAME	COMPANY	PHILIPPINES	
			MRL (ppm)	PHI (Days)
Benomyl	Fungufree Plus	Vast Agro Solution, Inc.	2.0	14
	Hyper 50 WP	Cyberth Phils., Inc.	2.0	14
	ICTC Benomyl 50 WP	Integrated Crop Trading Corp.	2.0	14
	Jiangnong 50 WP	EON Chemical Trading	2.0	14
	Momentum 50 WP	Gold Orchard Distribution, Inc.	2.0	14
	MYL-Q 50 WP	Kemistar Corp.	2.0	14
	Panda 50 WP	Just Marketing Operation Multi-Purpose Corp.	2.0	14
	Procure 50 WP	OTH Phils.	2.0	14
	Radisson Benomyl 50 WP	Radisson Agrochemical Corp.	2.0	14
	Sure Win	Teamagro Trdg., Corp.	2.0	14
	Texamyl 50 WP	Texicon Agrichem Corp.	2.0	14
	Venom 50 WP	Planters Product, Inc.	2.0	14
Captan	Captan 50 WP	Arysta Lifescience, Inc.	5.0	0
	Captan 50 WP	Jardine Distribution, Inc.	5.0	0
Carbendazim	Goldazim 500 SC	Enviro Cropvet Products, Inc.	2.0	-
	Minx 500 SC	Gintong Ani Agrichemicals	2.0	-
	Radizim 50 WP	Radisson Agrochemical Corp.	2.0	-
Chlorothalonil	Agronil 720 SC	Integrated Crop Trading Corp.	0.5	7-14
	Altermil 7820 SC	Jocanima Corporation	0.5	7-14
	Balear 500 SC	Zagro Corporation	0.5	7-14
	Banko 720 SC	Arysta Lifescience, Inc.	0.5	7-14
	Banko 75 WP	Arysta Lifescience, Inc.	0.5	7
	Baron 720 SC	Agro Technoproducts, Inc.	0.5	7-14

ACTIVE INGREDIENT	BRAND NAME	COMPANY	PHILIPPINES	
			MRL (ppm)	PHI (Days)
Chlorothalonil	Baron 720 SC	Agway Chemicals	0.5	7-14
	Bossing 720 SC	Kemistar Corp.	0.5	7-14
	Bossing 75 WP	Kemistar Corp.	0.5	7
	Chloronil 75 WP	Zagro Corporation	0.5	7
	Civil 75 WP	Leads Agri-Product Corp.	0.5	7
	Clotanil 75 WP	United Agro Trade Corp.	0.5	7
	Clothanil 720 SC	United Agro Trade Corp.	0.5	7-14
	Daconil 2787 50 WP	Bayer Cropscience, Inc.	0.5	5-7
	Daconil 2787 75 WP	Bayer Cropscience, Inc.	0.5	7
	Daconil 500 SC	Bayer Cropscience, Inc.	0.5	7-14
	Daconil 720 SC	Int'l. Veterinary & Agrochemicals, Inc. (IVA)	0.5	7-14
	Deacon 720 SC	Bayer Cropscience, Inc.	0.5	7-14
	Deacon 75 WP	Bayer Cropscience, Inc.	0.5	7
	Dr. Neil 75 WP	Access Agricare, Inc.	0.5	7
	Echo 720 SC	Centrochem Mktg., Inc.	0.5	7-14
	Freconil 720 SC	Agricon	0.5	7-14
	Free 75 WP	Agway Chemicals	0.5	7
	Fungunil 720 SC	RNE Chemical Trading	0.5	7-14
	Gardenil 500 SC	Gem Agrologic, Inc.	0.5	7-14
	Glider 720 SC	Gintong Ani Agrochemicals	0.5	7-14
	HQ Turbonil	HQ Agricare Trading	0.5	7
	Leadonil 500 SC	Leads Agri-Product Corp.	0.5	7-14
	Odeon 500 SC	Magan Agro (Phils.,) Ent.	0.5	7-14
	Ordeon 720 SC	Leads Agri-Product Corp.	0.5	7-14

ACTIVE INGREDIENT		COMPANY		PHILIPPINES
			MRL (ppm)	PHI (Days)
Chlorothalonil	Pilarich 500 G/L FP	Vann Hawk Agro Chemicals, Inc.	0.5	7-14
	Protec 720 SC	Altrade Incorporated	0.5	7-14
	ResQ 720 SC	HQ Agricare Trading	0.5	7-14
	Right Trac 720 SC	Everland Agri Corporation	0.5	7-14
	Rover 500 F	Aldiz Incorporated	0.5	7-14
	Sentinel 75 WP	Agri-Dyne Tech., Inc.	0.5	7
	Shield 72 SC	Jardine Distribution, Inc.	0.5	7-14
	Signature 500 SC	NS Northern Organic Fertilizer	0.50	7-14
	Syntax 720 SC	Cultiva, Inc.	0.50	7-14
	Teconil 720 SC	Tropi-Cuke, Inc.	0.50	7-14
	Telgar 500 SC	Cultiva, Inc.	0.50	7-14
	Thalonil 75 WP	NS Northern Organic Fertilizer	0.50	7
	Thalonil 720 SC	NS Northern Organic Fertilizer	0.50	7-14
	Transonil 500 SC	Transworld Trdg., Co., Inc.	0.50	7-14
	Transonil 720 SC	Transworld Trdg., Co., Inc.	0.50	7-14
	Trunil 75 WP	Cultiva, Inc.	0.50	7
	Valiant 720 SC	Radisson Agrochemical Corp.	0.50	7-14
	Valiant 75 WP	Radisson Agrochemical Corp.	0.50	7
	Vengeance 500 SC	Berris Agric'l. Co., Inc.	0.50	7-14
	Vengeance 720 SC	Berris Agric'l. Co., Inc.	0.50	7-14
	Vengeance 75 WP	Berris Agric'l. Co., Inc.	0.50	7
	Vivo 500 SC	Agro Advanced Crop Protection Corp.	0.50	7-14
	Vivo 720 SC	Agro Advanced Crop Protection Corp.	0.50	7-14
	Vivo 720 SC	TLV Agro Sales Corp.	0.50	7-14

ACTIVE INGREDIENT	BRAND NAME	COMPANY	MRL (ppm)	PHI (Days)
Difenoconazole	Score 250 EC	Syngenta Philippines, Inc.	1.00	21
Mancozeb	Attain M-80	Access Agricare, Inc.	2.0	5
	Biozeb 80 WP	Arkhal Agro Ventures	2.0	5
	Biozeb 80 WP	Monarch Agricultural, Inc.	2.0	5
	Bluezate 800	La Trinidad Sunrise Trading	2.0	5
	Curazeb M-80	HQ Agricare Trading	2.0	5
	Dithane M-45 Neotec WP	Cropking Chemicals, Inc.	2.0	5
	Dithane M-45 Neotec WP	Dow AgroScience, B.V.	2.0	5
	Dithane M-45 Neotec WP	Tropi-Cuke, Inc.	2.0	5
	Emthane 75 WG	Monarch Agricultural, Inc.	2.0	7
	Ethane 75 DF	Leads Agri-Product Corp.	2.0	7
	Ever Mancozeb 80 WP	Everland Agri Corporation	2.0	5
	Fungizeb 80 WP	Enviro Cropvet Products, Inc.	2.0	5
	Fungufree 80 WP	Vast Agro Solution, Inc.	2.0	5
	Ganazeb 80 WP	Jeels Masagana Farm Supply	2.0	5
	Greenblast 80 WP	Good Earth Technologies, International Inc.	2.0	5
	ICTC Mancozeb 80 WP	Integrated Crop Trading Corp.	2.0	5
	Induzeb 800 WP	Indukem Innovations, Inc.	2.0	5
	Avazeb 80 WP	International Veterinary & Agrochemicals, Inc. (IVA)	2.0	5
	Justhane 80 WP	Just Marketing Operation Multi-Purpose Corp.	2.0	5
	Agricote MZ 80 WP	Agway Chemicals	2.0	5
	Agricote MZ 80 WP	Chemiagro Resources Corp.	2.0	5

ACTIVE INGREDIENT	BRAND NAME	COMPANY	PHILIPPINES	
			MRL (ppm)	PHI (Days)
Mancozeb	Agrozeb 80 WP	United Agro Trade Corp.	2.0	5
	Aljay Mancozeb 80 WP	Aljay Agro Industrial Dev't. Corp.	2.0	5
	Aries Mancozeb	RNE Chemical Trading	2.0	5
	Lenin Mancozeb 80 WP	Lenin Farm Chemicals	2.0	5
	Mancotex 80 WP	Texicon Agrichem Corp.	2.0	5
	Manzate 75 DF	Du Pont Far East, Inc.	2.0	7
	Manzate 200 Fungicide	Du Pont Far East, Inc.	2.0	5
	Manzeb 80 WP	Zagro Corporation	2.0	5
	Marzeb 80 WP	Igpami Mktg. Corp.	2.0	5
	Martzeb 80 WP	Marthdave Co., Ltd.	2.0	5
	Mc-Zeb 80 WP	EON Chemical Trading	2.0	5
	Micron 80 WP	Aldiz Incorporated	2.0	5
	NS-D-10 Plus	NS Northern Organic Fertilizer	2.0	5
	Parafungus 75 WG/DF	Planters Product, Inc.	2.0	7
	Parafungus 80 WP	Planters Product, Inc.	2.0	5
	Pilarzeb 80 WP	Vann Hawk Agro Chemicals, Inc.	2.0	5
	Prozeb 80 WP	Agri Dyne Tech., Inc.	2.0	5
	Radisson Mancozeb 80 WP	Radisson Agrochemical Corp.	2.0	5
	Rainfast 80 WP	Cultiva, Inc.	2.0	5
	Redeem 750 WDG	Biostadt Philippines, Inc.	2.0	7
	Redeem 80 WP	Biostadt Philippines, Inc.	2.0	5
	Royalzeb 80 WP	Mars Agri-Chem Supply, Inc.	2.0	5
	Savior 80 WP	Dow AgroScience, B.V.	2.0	5
	Shogun 800	ALVA Chemicals, Inc.	2.0	5
	Shotgun DF	Altrade	2.0	

ACTIVE INGREDIENT	BRAND NAME	COMPANY	PHILIPPINES	
			MRL (ppm)	PHI (Days)
Mancozeb	Shotgun-M	Altrade	2.0	5
	Titanic 80 WP	Gold Orchard Distribution, Inc.	2.0	5
	Torogi Blue	Siglat Organic Fertilizer Farm Supply	2.0	5
	Tranzeb 80 WP	Transworld Trdg., Co., Inc.	2.0	5
	Trizeb 80 WP	Trigreen Trading Corp.	2.0	5
	Troop 80 WP	Novo Chrisantis	2.0	5
	Truzeb 80 WP	Abigail Farm Supply	2.0	5
	Vanzeb 75 WDG/DF	Agro Advanced Crop Protection Corp.	2.0	7
	Vanzeb 80 WP	Agro Advanced Crop Protection Corp.	2.0	5
	Vondozeb 75 WG	EFSJR Farms	2.0	7
	Vondozeb Plus	EFSJR Farms	2.0	5
	Vondozeb Plus	Jardine Distribution, Inc.	2.0	5
Propineb	Wonder 80 WP	Cyberth Philippines, Inc.	2.0	5
	Zeb-A-Zeb 80 WP	Oracle Chemical Corporation	2.0	5
	Antracol 70 WG	Bayer Cropscience, Inc.	2.0	7
Tebuconazole	Antracol 70 WP	Bayer Cropscience, Inc.	2.0	3
	Survivor WP 70	Nick's Agricultural Supply	2.0	3
Tebuconazole	Folicur 25 WP	Bayer Cropscience, Inc.	1.0	-
	Folicur 430 SC	Bayer Cropscience, Inc.	1.0	22
	Orius 430 SC	Leads Agri-Product Corp.	1.0	22
	Tebucoz 430 SC	Enviro Cropvet Products, Inc.	1.0	22

ACTIVE INGREDIENT	BRAND NAME	COMPANY	PHILIPPINES	
			MRL (ppm)	PHI (Days)
Thiophanate Methyl	Armor	Leads Agri-Product Corp.	2.0	14
	Bonita 700 WP	Anakune Corp.	2.0	14
	Fight-S	AgenVi Life Science, Inc.	2.0	14
	Fungitox 70 WP	Planters Product, Inc.	2.0	14
	Krypton 70 WP	Planter Agri Chem Corp.	2.0	14
	Miltop 70 WP	Jocanima Corporation	2.0	14
	Precur 70 WP	United Agro Trade Corp.	2.0	14
	Raven 70% WP	R & A Agrofarm Products	2.0	14
	Scope 70 WP	Zagro Corporation	2.0	14
	Tango 70 WP	Cultiva, Inc.	2.0	14
	Thiometh 70 WP	Gold Orchard Distribution, Inc.	2.0	14
	Thiophanate M 70 WP	Gamecore Enterprises	2.0	14
	Thio-Met 70 WP	Radisson Agrochemical Corp.	2.0	14
	Tiptop 70 WP	Berris Agricultural Products, Inc.	2.0	14
TM 70% WP	TM 70% WP	Managra Trading	2.0	14
	Topnotch	Arkhal Agro Ventures	2.0	14
	Tops 70 WP	Monarch Agr'l. Products, Inc.	2.0	14
	Topsin-M 70 WP	Transworld Trdg., Co., Inc.	2.0	14
	Topper 70 WP	FKA Agri Chemicals Corp.	2.0	14
<b>INSECTICIDES</b>				
Buprofezin	Applaud 10 WP	Jardine Distribution, Inc.	-	-
	Applaud 25 SC	Jardine Distribution, Inc.		15
Carbaryl	Americano 85 WP	Jocanima Corporation	3.0	1
	Baryl 85 WP	Kemistar Corp.	3.0	1
	Carbaseal	RNE Chemical Trading	3.0	1

ACTIVE INGREDIENT		COMPANY		PHILIPPINES
			MRL (ppm)	PHI (Days)
Carbaryl	Chopper 85 S	Cropking Chemicals, Inc.	3.0	1
	Elite Carbaryl 85 WP	Elite Biochemicals Corp.	3.0	1
	Fortein 85 WP	Planters Product, Inc.	3.0	1
	Ganadrin 85 WP	Jeels Masagana Farm Supply	3.0	1
	Kwagger 85 WP	Cultiva, Inc.	3.0	1
	Macro 85 WP	Cyberth Philippines, Inc.	3.0	1
	Ocho 85 WP	Access Agricare, Inc.	3.0	1
	Orabyl 85 WP	Oracle Chemical Corporation	3.0	1
	Pentagon 85 WP	Gold Orchard Distribution, Inc.	3.0	1
	Phantom 85 WP	Radisson Agrochem., Corp.	3.0	1
	Provin 85 WP	Agri Dyne Tech., Inc.	3.0	1
	Quadro 85 WP	Teamagro Trdg., Corp.	3.0	1
	Resbak	Vann Hawk Agro Chemicals, Inc.	3.0	1
	Savings 85 WP	CRC Agricultural Trading	3.0	1
	Servwel Carbaryl	Servwel Agri-Trading, Inc.	3.0	1
	Seven Eleven 85 WP	Integrated Crop Trading Corp.	3.0	1
	Sevin 50 WP	Bayer Cropscience, Inc.	3.0	1
	Sevin 85 WP	Bayer Cropscience, Inc.	3.0	1
	Shoot 85 WP	Berris Agricultural Co., Inc.	3.0	1
	Slayer 85 WP	Jedaric Chemicals	3.0	1
	Stix 480 EC	Bayer Cropscience, Inc.	3.0	1
	Superseven 85 WP	Int'l. Veterinary & Agrochemicals, Inc. (IVA)	3.0	1
	Transocarb 85 WP	Transworld Trdg., Co., Inc.	3.0	1
	United Agro Carbaryl	United Agro Trade Corp.	3.0	1

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			MRL (ppm)	PHI (Days)
Carbaryl	Versa 7	Del Fonso Agri Feeds Center	3.0	1
	Victory 85 WP	Agway Chemicals	3.0	1
	Zacarb 85 WP	Zagro Corporation	3.0	1
Cartap Hydrochloride	Agropoint Cartap	Agropoint Corp.	3.0	10
	Agrotap 50 SP	United Agro Trade Corp.	3.0	10
	All Out 50 SP	Everland Agri Corporation	3.0	10
	Alto 50 SP	Asia Gold Trading Corp.	3.0	10
	Altop 50 SP	Aljay Agro Industrial Dev't. Corp.	3.0	10
	Barena 50 SP	Top Agro Trade Corp.	3.0	10
	Barrage 50 SP	Agri Dyne Tech., Inc.	3.0	10
	Boltrin 50 SP	Cropking Chemicals, Inc.	3.0	10
	Broadband 50 SP	Albert Trading	3.0	10
	Buenas 50 SP	Igpami Mktg. Corp.	3.0	10
	Carbine 50 SP	Altrade, Inc.	3.0	10
	C-Cure 50 SP	OTH, Intl.	3.0	10
	Cardinal 50 SP	Vann Hawk Agro Chemicals, Inc.	3.0	10
	Caretap 50 SP	Enviro Cropvet Products, Inc.	3.0	10
	Caretap 50 SP	Gintong Ani Agrichemicals	3.0	10
	Cartap ES	Leads Agri-Product Corp.	3.0	10
	Diamond 50 SP	Access Agricare, Inc.	3.0	10
	Extreme 20 SP	Planters Agri-Chemical Corp.	3.0	10
	Elite Cartap	Elite Biochemicals Corp.	3.0	10
	Fujitap 50 SP	Just Marketing Operation Multi-Purpose Corp.	3.0	10
	Gadan 50 SP	Jeels Masagana Farm Supply	3.0	10

ACTIVE INGREDIENT		COMPANY		PHILIPPINES
			MRL (ppm)	PHI (Days)
Cartap Hydrochloride	Gemtrak 50 SP	Gem Agrologic, Inc.	3.0	10
	Grantap 50 SP	Abigail Farm Supply	3.0	10
	Husky	Avec Marketing	3.0	10
	Ingram 50 SP	Aldiz Incorporated	3.0	10
	Instar 50 SP	Arkhal Agro Ventures	3.0	10
	Katapat 50 SP	RNE Chemical Trading	3.0	10
	Megatap 50 SP	Zagro Corporation	3.0	10
	Miner 50 SP	Jocanima Corporation	3.0	10
	M-Tap 50 SP	Goldmine Trading	3.0	10
	Over-All 50 SP	Cyberth Philippines, Inc.	3.0	10
	Pacman Super Cartap	Titan Agricultural Products, Inc.	3.0	10
	Padan 50 SP	Agricare Service Corp.	3.0	10
	Padan 50 SP	Jardine Distribution, Inc.	3.0	10
	Padim 50 SP	Berris Agricultural Co., Inc.	3.0	10
	Paspas	NS Northern Organic Fertilizer	3.0	10
	Patrak 50 SP	Kemistar Corp.	3.0	10
	Pestemic 50 SP	R.E.D. Agri Trading	3.0	10
	Philtap 50 SP	PhilAgrow, Inc.	3.0	10
	Prevent 50 SP	Integrated Crop Trading Corp.	3.0	10
	Pro Done	HQ Agricare Trading	3.0	10
	Rampage 50 SP	Bayer Cropscience, Inc.	3.0	10
	Royal Cartap	Monarch Agric'l. Products, Inc.	3.0	10
	Sparrow 50 SP	Altacrop Protection Corp.	3.0	10
	Spur 50 SP	Novo Chrisantis	3.0	10
	Star Cartap	AgenVi Life Science, Inc.	3.0	10

ACTIVE INGREDIENT		COMPANY	PHILIPPINES	
			MRL (ppm)	PHI (Days)
Cartap Hydrochloride	Super Cartap 50 SP	Int'l. Veterinary & Agrochemicals, Inc. (IVA)	3.0	10
	Systemic Cartap 50 SP	Systemic Farm Supply	3.0	10
	Tepok 50 SP	Radisson Agrochem Corp.	3.0	10
	Thunder 50 SP	Agchem Mfg. Inc.	3.0	10
	Top Rank 50 SP	Vast Agro Solution, Inc.	3.0	10
	Trac 50 SP	Transworld Trdg., Co., Inc.	3.0	10
	Triband	Trigreen Trading Corp.	3.0	10
	Unitap 50 SP	Gold Orchard Distribution, Inc.	3.0	10
	Vegetox 50 SP	Planters Product, Inc.	3.0	10
	Versus 50 SP	Lenin Farm Chemicals	3.0	10
Chlorpyrifos+BetaCyfluthrin	Voltz 50 SP	Cultiva, Inc.	3.0	10
	Woktap 50 SP	Biostadt Philippines, Inc.	3.0	10
	X-14 Cartap Blue	Managra Trading	3.0	10
	Rador 262.5 EC	Bayer Cropscience, Inc.	0.05	40
	Azudin EC	Access Agricare, Inc.	0.05	40
	Bombard 275 EC	Zagro Corporation	0.05	40
	Nurelle D	Dow AgroScience, B.V.	0.05	40
	Nurelle D	Jardine Distribution, Inc.	0.05	40
	Dantop	Jardine Distribution, Inc.	1.0	-
	Dantotsu 16 WSG	Agricare Service Corp.	1.0	-
Cyfluthrin	Baythroid 050 EC	Bayer Cropscience, Inc.	0.02	
Cypermethrin	Accord 5 EC	Ian-Nina Farm Supply and Gen. Merchandise	0.03	7
	Ader 5 EC	Agway Chemicals	0.03	7

ACTIVE INGREDIENT	BRAND NAME	COMPANY	PHILIPPINES	
			MRL (ppm)	PHI (Days)
Cypermethrin	Agro Cypermethrin 5 EC	Top Agro Trade Corp.	0.03	7
	Alarm 5 EC	Just Marketing Operation Multi-Purpose Corp.	0.03	7
	Alcure 5 EC	Farmbee Agrimart	0.03	7
	Ambush 5 EC	Global Agroscience, Inc.	0.03	7
	Amda	Agchem Manufacturing Corp.	0.03	7
	Amihan 5 EC	Amihan Agricultural Supply	0.03	7
	Ammo 5 EC	Du Pont Far East, Inc.	0.03	7
	Aprub 5 EC	Rosielle's Agro-Ventures Supplies	0.03	7
	Arrivo 5 EC	FMC-Marine Colloids Phils.	0.03	7
	Arrow 5 EC	Jeels Masagana Farm Supply	0.03	7
	Assassin 5 EC	Universal Scope Philippines	0.03	7
	Attack 5R	Altacrop Protection Corp.	0.03	7
	Azudran 5 EC	Crown Agrikem Corporation	0.03	7
	Big Shot 5 EC	Enviro Cropvet Products, Inc.	0.03	7
	Bigathrin 5 EC	PhilAgrow, Inc.	0.03	7
	Bingo 5 EC	Albert Trading	0.03	7
	Bionic 5 EC	Rel Agro Trading	0.03	7
	Bodyguard 5 EC	Gold Orchard Distribution, Inc.	0.03	7
	Bomber 5 EC	Oro Agri Ventures	0.03	7
	Brutal 5 EC	Gintong Ani Trading	0.03	7
	Bugbuster 5 EC	Leads Agri Products, Inc.	0.03	7
	Bullet 5 EC	Access Agricare, Inc.	0.03	7
	Bull's Eye Insecticide	Altrade	0.03	7
	Bushwack 5 EC	Planters Product, Inc.	0.03	7

ACTIVE INGREDIENT	BRAND NAME	COMPANY	PHILIPPINES
			MRL (ppm) PHI (Days)
Cypermethrin	Capetan 5 EC	Managra Trading	0.03 7
	Capture 5 EC	OTH, Int'l.	0.03 7
	Centro 5 EC	Quezon Federation of Farmers and Fisherfolks	0.03 7
	Cipo 5 EC	Kemistar Corp.	0.03 7
	Combat 5 EC	Radisson Agrochem Corp.	0.03 7
	Conqueror 5 EC	Novo Chrisantis	0.03 7
	C-Trex	Agropoint Corp.	0.03 7
	Cybest 5 EC	Old Town Agric'l. Kinds	0.03 7
	Cyclone 5 EC	Int'l. Veterinary & Agrochemicals, Inc. (IVA)	0.03 7
	Cymbush 5 EC	Syngenta Philippines, Inc.	0.03 7
	Cyper Oracle 5 EC	Oracle Chemical Corporation	0.03 7
	Cypermethrin 5 EC	United Agro Trade Corp.	0.03 7
	Cyperstar	AgenVi Life Science, Inc.	0.03 7
	Cypex 50 EC	Zagro Corporation	0.03 7
	Cypro 5 EC	Agsystech, Inc.	0.03 7
	Deal 5 EC	Tropi-Cuke, Inc.	0.03 7
	Defensa 5 EC	Arkhal Agro Ventures	0.03 7
	Eagle Plus	Siglat Organic Fertilizer Farm Supply	0.03 7
	Easy 5 EC	Bicol JL Agric'l. Corp.	0.03 7
	Elite Cyper 5 EC	Elite Biochemicals Corp.	0.03 7
	Embrin 5 EC	EMB Agricultural Supply	0.03 7
	Fields 5 EC	United Linkages Marketing	0.03 7

ACTIVE INGREDIENT		COMPANY	PHILIPPINES	
			MRL (ppm)	PHI (Days)
Cypermethrin	First 5 EC	LCR Feeds Supply	0.03	7
	Fist 5 EC	Agri Dyne Tech., Inc.	0.03	7
	Flash 5 EC	Cultiva, Inc.	0.03	7
	Greenguard 5 EC	Good Earth Technologies, International Inc.	0.03	7
	Helmet 5 EC	Kjell Brian Cropcare Corp.	0.03	7
	Indukill 5 EC	Indukem Innovations, Inc.	0.03	7
	Juro 5 EC	D'Queens Agri Center	0.03	7
	Kidlat 5 EC	Edward Christopher Farm Supply	0.03	7
	Killer 5 EC	Monarch Agric'l. Products, Inc.	0.03	7
	King 5 EC	Teamagro Trdg., Corp.	0.03	7
	Knock Out 5 EC	Cyberth Philippines, Inc.	0.03	7
	Korbush 5 EC	Angel Farm Supply	0.03	7
	Laban 5 EC	Ramgo International Corp.	0.03	7
	Lakas 5 EC	Igpami Mktg. Corp.	0.03	7
	Libra 5 EC	Trigreen Trading Corp.	0.03	7
	Lucky 5 EC	Planters Panay, Inc.	0.03	7
	Magnet 5 EC	Mars Agri Ventures & Commodities, Inc.	0.03	7
	Magnum 5 EC	Aldiz Incorporated	0.03	7
	Megathrin 5 EC	Megacrop Dev., Inc.	0.03	7
	Mistah 5 EC	Avee Marketing	0.03	7
	Model 5 EC	Model Agricultural Supply	0.03	7
	MRJ Cypermethrin	Mel-Jay Enterprises	0.03	7
	Orig 5 EC	Aling Paz Agricultural Supply	0.03	7

ACTIVE INGREDIENT	BRAND NAME	COMPANY	PHILIPPINES	
			MRL (ppm)	PHI (Days)
Cypermethrin	Pare 5 EC	Nick's Agricultural Supply	0.00	7
	Phyton	R.E.D. Agri Trading	0.03	7
	Pinnacle 5 EC	La Trinidad Sunrise Trading	0.03	7
	Poker 5 EC	CRC Agricultural Trading	0.03	7
	Punish X 5.5 EC	Zagro Corporation	0.03	7
	Raja 5 EC	R. King Agri Supply	0.03	7
	Rocket 5 EC	Texicon Agrichem Corp.	0.03	7
	Sabedong 5 EC	NS Northern Organic Fertilizer	0.03	7
	Sadata 5 EC	Supreme Agro Trading	0.03	7
	Scud 5 EC	Larico Enterprises	0.03	7
	Seiko 5 EC	Mt. Trail Farm Supply	0.03	7
	Sharphil 5 EC	Sharphil., Inc.	0.03	7
	Sherpa 5 EC	Bayer Cropscience, Inc.	0.03	7
	Shooter 5 EC	Joe-Pabs Marketing	0.03	7
	Smash 5 EC	Biostadt Philippines, Inc.	0.03	7
	Super M 5 EC	Concepcion Agricultural Supply	0.03	7
	Supermethrin 5 EC	RNE Chemical Trading	0.03	7
	Supersmak 5 EC	MarthDave Co., Ltd.	0.03	7
	Tamaraw 5 EC	Systemic Farm Supply	0.03	7
	Tex 5 EC	Del Fonso Agri Feeds Center	0.03	7
	Tipid 5 EC	R & A Agrofarm Products	0.03	7
	Top Kill	Agro Industrial Marketing, Inc.	0.03	7
	Torpedo 5 EC	Abigail Farm Supply	0.03	7
	Tracer 5 EC	Evergreen Ent.	0.03	7
	Trigger 5 EC	Lenin Farm Supply	0.03	7

ACTIVE INGREDIENT	BRAND NAME	COMPANY	PHILIPPINES	
			MRL (ppm)	PHI (Days)
Cypermethrin	Ultimatum 5 EC	Noble Mercantile & Dev. Corp.	0.03	7
	Vala 5 EC	ANMA AgriVet Supply	0.03	7
	Vasthrin	Vast Agro Solution, Inc.	0.03	7
	Vira 5 EC	Aljay Agro Industrial Dev't. Corp.	0.03	7
	Weapon 5 EC	Cropking Chemicals, Inc.	0.03	7
	Winner 5 EC	Cardinal Farm Supply	0.03	7
	Wiper 5 EC	Asia Gold Trading Corp.	0.03	7
	X-press Methrin 5 EC	Integrated Crop Trading Corp.	0.03	7
	X synergy Max 5 EC	Isabela Biotech Enterprises	0.03	7
	Zapul 5 EC	Palawan Poultry & Gen. Mdse.	0.03	7
	Zoom 5 EC	Berris Agricultural Co., Inc.	0.03	7
	Zorro 5 EC	Thompson Agricultural Dist.	0.03	7
Deltamethrin	2Fast 2.5 EC	Enviro Cropvet Products, Inc.	0.5	7-10
	Agro Deltamethrin	United Agro Trade Corp.	0.5	7-10
	Decide 2.5 EC	Cropking Chemicals, Inc.	0.5	7-10
	Decimate 2.5 EC	Monarch Agric'l. Products, Inc.	0.5	7-10
	Decis 2.5 EC	Bayer Cropscience, Inc.	0.5	7-10
	Decis M 2.5 EC	Agway Chemicals	0.5	7-10
	Decis S 2.5 EC	Kjell Brian Cropcare Corp.	0.5	7-10
	Delta 2.5 EC	Agchem Manufacturing Corp.	0.5	7-10
	Deltamet 2.5 EC	Zagro Corporation	0.5	7-10
	Desistin 2.5 EC	Vann Hawk Agro Chemicals, Inc.	0.5	7-10
	Impact 2.5 EC	Planters Product, Inc.	0.5	7-10
	Jaguar 2.5 EC	RNE Chemical Trading	0.5	7-10
	Radisson Deltamethrin	Radisson Agrochem Products, Inc.	0.5	7-10

ACTIVE INGREDIENT	BRAND NAME	COMPANY	PHILIPPINES	
			MRL (ppm)	PHI (Days)
Deltamethrin	2.5 EC			
	Ryder 2.5 EC	Cultiva, Inc.	0.5	7-10
	Superquick 2.5 EC	Int'l. Vet & Agrochem (IVA) Inc.	0.5	7-10
	Suppress 2.5 EC	Agri Dyne Tech., Inc.	0.5	7-10
	Thesis 2.5 EC	Integrated Crop Trading Corp.	0.5	7-10
	Whizz 2.5 EC	Berris Agricultural Co., Inc.	0.5	7-10
Dimethoate	Perfekthion 40 EC	BASF Philippines, Inc.	1.0	14
Dinotefuran	Oshin 20 SG	Arysta LifeScience, Phils., Inc.	1.0	7
	Oshin 20 SG	Biostadt Philippines, Inc.	1.0	7
	Starkle 20 SG	Leads Agri Products, Inc.	1.0	7
Etofenprox	Check 2.5 EC	Access Agricare, Inc.	2.0	7
	Dash 30 EC	Biostadt Philippines, Inc.	2.0	-
	Polido 2.5 EC	Arysta Lifescience, Phils., Inc.	2.0	7
	Trebon 30 EC	Arysta Lifescience, Phils., Inc.	2.0	-
	Trebon Excel 10 EC	Biostadt Philippines, Inc.	2.0	7
	Trefic 20 WP	Arysta Lifescience, Phils., Inc.	2.0	51
Fenvalerate	Kilpes 3 EC	Zagro Corporation	1.0	2
	Fenracidin 30 EC	Radisson Agrochemical Corp.	1.0	2
	Leadmark 3 EC	Leads Agri Products, Inc.	1.0	2
	Sumicidin 3 EC	Jardine Distribution, Inc.	1.0	2
	Zecure+3 EC	Gladius Industries, Inc.	1.0	2
Fenthion	Lebaycid 50 EC	Bayer Cropscience, Inc.	5.0	14
Imidacloprid	Admire 200 SL	Bayer Cropscience, Inc.	1.0	20
	Confidor 100 SL	Bayer Cropscience, Inc.	1.0	80

ACTIVE INGREDIENT	BRAND NAME	COMPANY	PHILIPPINES	
			MRL (ppm)	PHI (Days)
Lambdacyhalothrin	25 Karat	Farm Care Corp.	0.5	3
	5 Star General	Access Agricare, Inc.	0.5	3
	Achieve 2.5 EC	Agri Dyne Tech., Inc.	0.5	3
	Alert 2.5 EC	Jocanima Corporation	0.5	3
	Ariba 2.5 EC	Texicon Agrichem Corp.	0.5	3
	Armas 2.5 EC	Altrade	0.5	3
	Arnis 2.5 EC	Kemistar Corp.	0.5	3
	Arsenal 2.5 EC	Gold Orchard Distribution, Inc.	0.5	3
	Autokill 2.5 EC	HQ Agricare Trading	0.5	3
	Bida 2.5 EC	Aldiz Incorporated	0.5	3
	Bigboss 2.5 EC	PhilAgrow, Inc.	0.5	3
	Bugseek 2.5 EC	RNE Chemical Trading	0.5	3
	Carat 2.5 EC	United Agro Trade Corp.	0.5	3
	Chaku 2.5 EC	Leads Agri Products., Inc.	0.5	3
	Cyhatex 2.5 EC	Threadstone Chemicals Corp.	0.5	3
	Deliver 2.5 EC	Agway Chemicals	0.5	3
	Descarte 2.5 EC	Planters Product, Inc.	0.5	3
	Excalibur 2.5 EC	Berris Agricultural Co., Inc.	0.5	3
	Elite Lambda	Elite Biochemicals Corp.	0.50	3
	Garand 2.5 EC	Just Marketing Operation Multi-Purpose Corp.	0.50	3
	Gold Crops 2.5 EC	Gintong Ani Trading	0.50	3
	Inferno 2.5 EC	Jeels Masagana Farm Supply	0.50	3
	Jakpot 2.5 EC	Teamagro Trdg., Corp.	0.50	3
	Jolina 2.5 EC	SL Agritech Corporation	0.50	3

ACTIVE INGREDIENT	BRAND NAME	COMPANY	PHILIPPINES	
			MRL (ppm)	PHI (Days)
Lambda-cyhalothrin	Karate 2.5 EC	Syngenta Philippines, Inc.	0.50	3
	Karate with Zeon Technology	Syngenta Philippines, Inc.	0.50	3
	Krypton 2.5 EC	Mars Agri Ventures & Commodities, Inc.	0.50	3
	LC Oracle 2.5 EC	Oracie Chemical Corporation	0.50	3
	Revolt 2.5 EC	Monarch Agric'l. Products, Inc.	0.50	3
	RPG 2.5 EC	Abigail Farm Supply	0.50	3
	Slam 2.5 EC	Vast Agro Solution, Inc.	0.50	3
	Spectra 2.5 EC	Agropoint Corp.	0.50	3
	Star Lambda	AgenVi Life Science, Inc.	0.50	3
	Sugod 2.5 EC	Vann Hawk Agro Chemicals, Inc.	0.50	3
	Sumo 2.5 EC	Agchem Manufacturing Corp.	0.50	3
	Super Lambda 2.5 EC	MartDave Co., Ltd.	0.50	3
Phenthioate	Terminator 2.5 EC	Radisson Agrochem Corp.	0.50	3
	Top Gun 2.5 EC	Agro Industrial Marketing, Inc.	0.50	3
	Torch 2.5 EC	Altacrop Protection Corp.	0.50	3
Phymetrozine	Pennant 50 EC	Bayer Cropscience, Inc.	0.10	14
Thiamethoxam	Chess 50 WG	Syngenta Philippines, Inc.	1.0	50
	Actara 25 WG	Syngenta Philippines, Inc.	1.0	65

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## DIRECTORY OF PESTICIDE INDUSTRY ASSOCIATION

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<b>CROPLIFE</b>	<i>Ms. FLORENCE VASQUEZ</i> President <i>Mr. SIMEON A. CUYSON</i> Executive Director	772-3993 772-3992	Unit 5-E MAPFRE, Asian Corporate Center Condo., Acacia Ave., Madrigal Business Park, Ayala Alabang, Muntinlupa City
<b>PICMA</b> Philippine Integrated Crop Management Association	<i>Mr. SALVADOR FERIDO</i> President	367-9988 365-3113	<b>c/o Radisson AgroChem Corp.</b> 220 Sto Domingo St. Balingasa, Quezon City