

Guide

to the use of plant protection products in the West-Indies



**GUIDE TO THE USE OF
PLANT PROTECTION PRODUCTS
IN THE WEST-INDIES**

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Anguilla, Antigua and Barbuda, Barbados, British Virgin Islands,
Dominica, Grenada, Guadeloupe, Martinique, Montserrat,
Saint Kitts-Nevis, Saint Lucia, Saint Vincent and the Grenadines

Authors

Eric Pantaloni

FRGDEC Languedoc / Roussillon

Collaborators:

Jean-Gilbert Theissen, Roland Pierrot

Ministère de l'agriculture - MCP

Christian Chabrier

CIRAD-FLHOR Martinique

FOREWORD

CONTENTS OF THE MANUAL

The manual describes only part of integrated crop protection, that of the use of phytopharmaceutical products sold by the crop protection industry according to technical standards, regulations and commercial rules which can be verified by anybody.

The data concerning active ingredients are limited to a short description of the substances influencing product characteristics and especially environmental impact. In the manual, commercial products sold to farmers and gardeners are described according to their formulations and toxicological data.

PREPARATION

The manual includes and combines data from three sources – agrochemicals companies, national plant protection services and the Mission de Coopération Phytosanitaire (MCP).

Companies were questioned specially for the work and provided all the non-confidential information necessary. The names of those that replied to the survey and which manufacture and sell pesticides for West-Indies are listed on page 6.

LAYOUT OF THE MANUAL

The manual has been designed logically. General observations on products, toxicity, regulations and precautions for use are followed by a section on the choice of active ingredients recommended for specific crop health problems and the commercial products which contain the active ingredient in question, the companies which manufacture, formulate or distribute them. Finally, this procedure can be performed in the opposite direction using indexes: consulting a given trade name gives product characteristics and the pests or diseases targeted.

The layout is convenient with rapid access to information by using tables of active ingredients and product sheets.

READERSHIP

This manual is not intended for farmer end-users who would only use a fraction of the data but more for "information intermediaries" such as agricultural advisers of all kinds, co-operative technicians and extension workers, producers' groups, development and state companies and all those involved in the marketing of phytopharmaceutical products (importers, state agents, donors, etc.).

The manual may also be a source of general information for national registration committees where they exist and for departments responsible for plant protection regulations elsewhere.

List of the companies mentioned in the manual (see directory page 199)

Within the guide

Abbott Laboratories	Abbott
American Cyanamid Co.	Cyanamid
BASF A.G.	BASF
Bayer A.G.	Bayer
CFPI Agro	CFPI
DowElanco	DowElanco
Elf Atochem Agri	Elf Atochem
Du Pont de Nemours	Du Pont
FMC Corp.	FMC
Hoechst Schering AgrEvo GmbH	AgrEvo
ISK Biosciences Corp.	ISK
Merck AgVet	Merck
Monsanto Co.	Monsanto
Novartis Crop Protection A.G.	Novartis
Rhône-Poulenc Agro	Rhône-Poulenc
Sumitomo Chemical Company	Sumitomo
Zeneca Agrochemicals	Zeneca

NOTICE TO THE READER

The authors cannot be held to be responsible for any errors or omissions in information concerning the agricultural chemicals mentioned in this work and the companies which market them. Users should at all times conform to the instructions on the label or instruction leaflets accompanying the products.

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LIST OF ABBREVIATIONS

/	per
d	day
cont'd	continued
d	day
g	gram
gal.	gallon
ha	hectare
hl	hectolitre
kg	kilogram
l	litre
lb	pound
lbs.	pounds
m ²	square metre
m ³	cubic metre
mg	milligram
fl. oz.	fluid ounce / ounces
spp.	species

LIST OF ACRONYMS

CIRAD	Centre de Coopération Internationale en Recherche Agronomique pour le Développement (Centre for International Cooperation in Agronomic Research for Development)
FIC	Fonds Inter-Caraïbes
FRGDEC	Fédération Régionale des Groupements de Défense contre les Ennemis des Cultures
MCP	Mission de Coopération Phytosanitaire
WHO	World Health Organisation

PART I

GENERALITIES

1. TOXICITY AND RISKS

1.1. Definitions

The toxicity of a substance is defined by its ability to cause damage when ingested by a living organism.

The risk consists of the potential for causing damage, with on the one hand the probability of damage occurring and on the other the seriousness of such damage.

Exposure of a living organism (animal or plant) to a pesticide, i.e. the risk run by the organism depends on several factors:

- the chemical properties of the product (breakdown, type of effect, etc.),
- product concentration and duration of exposure,
- the biology of the organism involved.

Risks for human health and/or the environment are examined for a substantial number of active substances and/or commercial products. These toxicological studies are aimed at showing the results of ingestion of crop protection products.

The pictograms used help to show the risks (to human health and the environment) during handling of the products.

1.2. Toxicological classification of substances according to WHO (World Health Organization) standards

WHO hazard class		Acute LD ₅₀ (rat) (mg/kg)			
		Oral		Dermal	
		Solid	Liquid	Solid	Liquid
Ia	Extremely hazardous	5 or less	20 or less	10 or less	40 or less
Ib	Highly hazardous	5 – 50	20 – 200	10 – 100	40 – 400
II	Moderately hazardous	50 – 500	200 – 2000	100 – 1000	400 – 4000
III	Slightly hazardous	> 500	> 2000	> 1000	> 4000
Table 5	Technical products unlikely to present acute hazard in normal use				
Table 6	Technical products not included in the classification and believed to be obsolete or discontinued for use as pesticides				
Table 7	List of gaseous or volatile fumigants not classified under the WHO recommended classification of pesticides by hazard				

LD₅₀ is the concentration of a toxic substance in mg per kg live weight that causes the death of 50 % of the laboratory animals to which it is administered.

1.3. Classification of commercial crop protection preparations according to EC standards

Since most of the plant protection products marketed in the West-Indies are produced by European companies, hazard information for human health has been given by those companies according to EC regulations as follows:



<div style="text-align: right;"> </div>	
Active ingredients	g/l
Company / Undertaking	
Toxicity to man Harmful if swallowed Irritating to eyes and skin	Countries where available

Criteria for classification, indication of danger and choice of risk phrases

Active ingredients

EC classification	Acute toxicity			
	LD ₅₀ Oral	LD ₅₀ Dermal	LC ₅₀ Inhalation	
			aerosols or particulates	gases or vapours
Very toxic	25 or less	50 or less	0.25 or less	0.5 or less
Toxic	25 – 200	50 – 400	0.25 – 1	0.5 – 2
Harmful	200 – 2000	400 – 2000	1 – 5	2 – 20
Precision associated to the classification	<i>if swallowed</i>	<i>in contact with skin</i>	<i>by inhalation</i>	

LD₅₀ Oral (rat) in mg/kg

LD₅₀ Dermal (rat or rabbit) in mg/kg

LC₅₀ Inhalation (rat) in mg/litre/4hr

Commercial products

References		Classification
Oral LD ₅₀ , mg/kg of body weight (rat)		
Solids 5 or less 5 – 50 50 – 500	Liquids 25 or less 25 – 200 200 – 2000	Very toxic Toxic Harmful
Percutaneous LD ₅₀ , mg/kg of body weight (rat or rabbit)		
Solids 10 or less 10 – 100 100 – 1000	Liquids 50 or less 50 – 400 400 – 4000	
LC ₅₀ (4 hour inhalation), mg/litre air (rat)		
Gases, fumigants, aerosols, powder (diameter of particles less than 50 microns)		
0.5 or less 0.5 – 2 2 – 20		Very toxic Toxic Harmful

2. LABELS

Labels are a visual aid and a support for concise, practical, easily-understood information on the procedure for using a product and for protecting the user and the environment from risk of accident. A label bears the following features:

- phrases specifying type of exposure or the special nature of risks,
- phrases recommending care to be taken during storage and before, during and after handling and emergency procedure in case of accident,
- all necessary information concerning product composition, the way it affects pests, doses and recommended application methods,
- all useful information for good use, e.g. the possibility of combination with other products, the risk of secondary effects according to weather conditions, etc.).

When the pack is small, a leaflet to complete the label should accompany each unit sold separately.

However, the label will not replace the explanations that the distributor can provide. Thus, it is strongly recommended that you should consult your distributor if you have the slightest hesitation concerning the handling of pesticides.

3. HANDLING AND STORAGE PRECAUTIONS

It is also recommended to take the following precautions when handling any crop protection product, and even those considered to be non-toxic.

3.1. Storage



Keep in a locked place out of the reach of children.



Keep the recipient tightly closed in a cool, well-ventilated place.



Do not smoke during use.

3.2. Preparation for application

Any decision to spray should be well considered and all use of the product must be justified:

- identification of the crop and its stage of growth,
- identification of the pest to be controlled.

When the decision to spray has been taken:

- determine the precise area to be sprayed,
- choose an effective product for the problem,
- obtain information from technicians, firms or representatives concerning the dosage and spraying methods,
- check that your equipment is in good working order.

Before handling the product:

- read the label carefully,
- find out and use the dosage specified,
- respect application periods, pre-harvest intervals and precautions for use.

Respecting a number of basic principles which apply to most cases should enable better results and reduce risk for the user, those around him, consumers and the environment.

Take the fullest possible precautions during the preparation phase. The risk is very high during preparation of a mix or a solution because the product handled is highly concentrated. Protect yourself effectively from accidental splashing, dust or fumes (refer on labels).

3.3. Spraying

Do not spray on windy days to avoid all drift.

Check that the preparation (mix, powder, etc.) does not touch the operator of the neighbouring area.

Wear appropriate protection (refer on labels).

3.4. After spraying

Clean the apparatus carefully and replace all worn parts – especially nozzles. Store used containers before returning them to the distributor who will then return them to the manufacturer. In order to protect the environment, packaging should not be rinsed or discarded at the site of spraying. Risk-free disposal is obligatory.

- Combustible packaging:
 - paper bags, cloth, plastics, empty cardboard boxes and crates,
 - empty, well-rinsed plastic containers (except for PVC).

Burn in a strong fire and at distance from dwellings or frequented routes, taking wind direction into account. Do not breathe in the smoke.

- Non-combustible packaging:
 - empty, well-rinsed metal containers:
 - 50 and 200 l drums: return to the supplier, sell to a firm dealing in used containers or take to sanitary landfill dump. Do not re-use for any purpose,
 - small containers (up to 20 l): after rinsing, dispose of at a public dump or bury at least 50 cm deep at a private disposal site. Do not re-use for any purpose.

3.5. Special precautions

- In case of accidental splashing of skin or eyes:

Remove contaminated clothing and wash skin with soap and water. Rinse eyes immediately with water and consult a doctor or a dispensary.

- In case of intoxication:

If the victim is hardly conscious or unconscious, place him with his head on the side.

Alert a doctor or dispensary, showing them the package and the label of the product.

Never give the patient anything to drink and especially not milk or alcoholic drinks.

Do not make the patient vomit, unless this is advised on the label of the product and, in this case, only if he is conscious.

PART II

CHOICE OF ACTIVE INGREDIENTS

USING THE TABLES

The tables below show a choice of active ingredients according to the pests, diseases and weeds previously identified. They are sometimes designed for more specific treatments (soil treatment, seed treatment, treatment of stored products), enabling effective control by application of the recommended amounts of active ingredients.

Each pest is associated with active ingredients and crop categories (vegetables, fruits, ornamentals, plus potatoes and bananas). Each active ingredient refers to a sheet in the list (Part III) covering the properties of the active ingredient in question and information on the corresponding commercial products (Part IV).

The amounts of active ingredients for open field treatments are generally given in g/ha or kg/ha but sometimes in g/plant (especially for orchard crops). It should be noted that we did not mention amounts in **g/hl** although it is the correct unit for water-based sprays which must wet all the foliage in orchard crops. When necessary, divide by ten the amounts in g/ha to obtain the amount in g/hl. In this case, the amount of spray preparation depends on the amount of foliage and may exceed 10 hl/ha.

Amounts are also given in g/100 kg for stored products, in g/m² and g/m³ for premises and g/kg for baits.

You can easily convert metric measurements in imperial or US measurements by using the table page 195.

Pre-harvest intervals are not given in this manual. As a matter of fact, they greatly depend on both the target crop and the climate conditions. Moreover, there is very few datas concerning pre-harvest intervals in tropical countries. Therefore, **when choosing a plant protection product, users should at all times conform to the use specified by law (registration) and/or the use recommended by manufacturers.**

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PESTS

AERIAL PESTS

Pests	Active ingredients	Crops	Doses	Pages
MITES	abamectin	vegetables	9 - 21.6 g/ha	59
	acrinathrin	ornamentals	4.5 - 9 g/ha	60
		vegetables	60 g/ha	
		fruits	60 - 75 g/ha	61
	azocyclotin	vegetables	300 g/ha	
		fruits	300 g/ha	
	benzoximate	fruits	400 g/ha	62
	bifenthrin	vegetables	40 g/ha	62
		fruits	40 - 50 g/ha	
		ornamentals	40 g/ha	
	bifenthrin + clofentezine	fruits	20 + 100 g/ha	62+ 65
		ornamentals	30 + 150 g/ha	
	bifenthrin + dicofol	fruits	20 + 360 g/ha	62+ 67
	bromopropylate	fruits	500 g/ha	62
		ornamentals	500 g/ha	
	chinomethionat	vegetables	125 g/ha	64
		fruits	125 g/ha	
	clofentezine	vegetables	200 g/ha	65
		fruits	200 g/ha	
		ornamentals	200 g/ha	
	cypermethrin + profenofos	vegetables	40 + 400 g/ha	66 + 78
	dicofol	vegetables	500 g/ha	67
		fruits	500 g/ha	
		ornamentals	500 g/ha	
	endosulfan	vegetables	610 g/ha	68
	fenbutatin oxide	vegetables	500 g/ha	69
		fruits	500 g/ha	

PESTS

Pests	Active ingredients	Crops	Doses	Pages
MITES (cont'd)	fenbutatin oxide + flufenoxuron	fruits	350 g/ha + 37.5	69 + 71
	fenpropathrin	fruits	200 g/ha	70
	hexythiazox	vegetables	50 g/ha	73
		fruits	50 g/ha	
INSECTS Aphids		ornamentals	50 g/ha	
	acephate	vegetables	750 g/ha	59
		fruits	600 g/ha	
	alpha-cypermethrin	vegetables	12 - 15 g/ha	60
		fruits	15 g/ha	
	bifenthrin	vegetables	12 g/ha	62
		fruits	7.5 - 10 g/ha	
		ornamentals	20 g/ha	
	cypermethrin	vegetables	30 g/ha	66
		potatoes	50 g/ha	
		fruits	50 g/ha	
	cypermethrin + profenofos	vegetables	40 + 400 g/ha	66 + 78
	deltamethrin	vegetables	7.5 - 12.5 g/ha	66
		potatoes	7.5 g/ha	
		fruits	7.5 - 12.5 g/ha	
		ornamentals	7.5 g/ha	
	deltamethrin + heptenophos	vegetables	12.5 + 200 g/ha	66 + 72
		potatoes	12.5 + 200 g/ha	
	diazinon	fruits	300 g/ha	67
	dichlorvos	vegetables	1000 g/ha	67
		ornamentals	1000 g/ha	

PESTS

Pests	Active ingredients	Crops	Doses	Pages
INSECTS (cont'd) Aphids (cont'd)	endosulfan	vegetables	610 g/ha	68
		fruits	610 g/ha	
		ornamentals	610 g/ha	
	endosulfan + thiometon fenthion	vegetables	300 + 100 g/ha	68 + 80
		fruits	825 g/ha	70
	fenvalerate	ornamentals	825 g/ha	
		potatoes	50 g/ha	70
	fenvalerate + fenitrothion	fruits	75 g/ha	
		potatoes	25 + 125 g/ha	70 + 69
		fruits	25 + 125 g/ha	
	formothion	vegetables	405 g/ha	72
		fruits	505 g/ha	
	imidacloprid	fruits	50 - 70 g/ha	73
		ornamentals	100 g/ha	
	lambda-cyhalothrin	vegetables	12.5 g/ha	74
		potatoes	12.5 g/ha	
		fruits	7.5 g/ha	
	methidathion methomyl	fruits	300 g/ha	75
		vegetables	250 g/ha	75
	mevinphos	fruits	500 g/ha	
		ornamentals	500 g/ha	
		vegetables	350 g/ha	75
	oxydemeton-methyl	fruits	500 g/ha	
		ornamentals	350 g/ha	
		fruits	250 g/ha	76
		ornamentals	250 g/ha	

PESTS

Pests	Active ingredients	Crops	Doses	Pages
INSECTS (cont'd) Aphids (cont'd)	parathion	vegetables fruits	200 - 225 g/ha 185 - 250 g/ha	76
	permethrin	ornamentals vegetables	200 - 250 g/ha 50 - 75 g/ha	77
	phosalone	ornamentals vegetables	50 g/ha 600 g/ha	77
	pirimicarb	fruits ornamentals vegetables	600 g/ha 600 g/ha 375 g/ha	77
		potatoes	250 g/ha	
		fruits	375 g/ha	
		ornamentals	375 g/ha	
	tau-fluvalinate	vegetables	48 - 72 g/ha	79
		fruits	48 - 72 g/ha	
	tralomethrin	fruits	17.3 g/ha	81
Beetles	triazamate	vegetables	70 g/ha	81
		potatoes	105 g/ha	
	vamidothion	fruits	500 g/ha	81
		ornamentals	500 g/ha	
	alpha-cypermethrin	potatoes	12.5 g/ha	60
	cyfluthrin	potatoes	15 g/ha	65
	cypermethrin	vegetables	25 g/ha	66
		potatoes	20 g/ha	
	deltamethrin	vegetables	5 - 7.5 g/ha	66
		potatoes	7.5 g/ha	
	endosulfan	potatoes	350 g/ha	68
	fenvalerate	potatoes	50 g/ha	70

PESTS

Pests	Active ingredients	Crops	Doses	Pages
INSECTS <i>(cont'd)</i> Beetles <i>(cont'd)</i>	lambda-cyhalothrin	vegetables	5 - 7.5 g/ha	74
		potatoes	7.5 g/ha	
	methidathion	potatoes	300 g/ha	75
	parathion	vegetables	225 g/ha	76
	phosalone	potatoes	600 g/ha	77
Bugs	tau-fluvalinate	potatoes	48 g/ha	79
	thiocyclam	vegetables	150 - 500 g/ha	80
		potatoes	150 - 500 g/ha	
	cypermethrin + profenofos	vegetables	40 + 400 g/ha	66 + 78
	endosulfan	fruits	610 g/ha	68
Caterpillars	lambda-cyhalothrin	fruits	7.5 g/ha	74
	permethrin	vegetables	50 - 75 g/ha	77
	acephate	vegetables	500 - 750 g/ha	59
	alpha-cypermethrin	vegetables	10 g/ha	60
	<i>Bacillus thuringiensis</i>	all crops		61
	bifenthrin	vegetables	20 g/ha	62
		fruits	30 g/ha	
	carbaryl	fruits	1500 g/ha	63
	cyfluthrin	vegetables	15 g/ha	65
		fruits	15 g/ha	
		ornamentals	15 g/ha	
	cypermethrin	vegetables	30 g/ha	66
		fruits	30 g/ha	
	cypermethrin + profenofos	vegetables	40 + 400 g/ha	66 + 78
	deltamethrin	vegetables	7.5 - 12.5 g/ha	66
		fruits	7.5 - 17.5 g/ha	
		ornamentals	7.5 g/ha	

PESTS

Pests	Active ingredients	Crops	Doses	Pages
INSECTS (cont'd) Caterpillars (cont'd)	diazinon	fruits	30 g/ha	67
	fenpropathrin	fruits	100 - 125 g/ha	70
	fenthion	fruits	550 g/ha	70
	fenvalerate	vegetables	50 g/ha	70
		fruits	75 g/ha	
	fenvalerate + fenitrothion	fruits	37.5 + 187.5 g/ha	70 + 69
	fenbutatin oxide	fruits	350 g/ha	69
	+ flufenoxuron		+ 37.5	+ 71
	formothion	fruits	507 g/ha	72
	lambda-cyhalothrin	vegetables	7.5 g/ha	74
		fruits	7.5 - 17.5 g/ha	
	methidathion	fruits	300 - 400 g/ha	75
	methomyl	vegetables	400 g/ha	75
		fruits	750 g/ha	
	mevinphos	fruits	500 g/ha	75
	parathion	vegetables	200 g/ha	76
		fruits	186 - 465 g/ha	
	permethrin	vegetables	50 - 75 g/ha	77
		ornamentals	50 - 75 g/ha	
	phosalone	fruits	600 - 750 g/ha	77
	tau-fluvalinate	vegetables	72 g/ha	79
		fruits	144 g/ha	
	teflubenzuron	fruits	50 g/ha	79
	thiocyclam	vegetables	150 - 500 g/ha	80
		fruits	150 - 500 g/ha	
	tralomethrin	vegetables	8.6 g/ha	81
		fruits	24.8 g/ha	

PESTS

Pests	Active ingredients	Crops	Doses	Pages
INSECTS <i>(cont'd)</i> Flies	acephate	vegetables	500 g/ha	59
	chlorfenvinphos	vegetables	600 g/ha	64
	diazinon	vegetables	300 g/ha	67
		fruits	300 g/ha	
	dimethoate	vegetables	300 g/ha	68
		fruits	300 g/ha	
	fenthion	fruits	550 g/ha	70
	formothion	vegetables	405 - 505 g/ha	72
		fruits	338 - 505 g/ha	
	varidothion	fruits	500 g/ha	81
	cyfluthrin	fruits	35 g/ha	65
	deltamethrin	vegetables	12.5 g/ha	66
Leafhoppers		fruits	12.5 g/ha	
		vegetables	12.5 g/ha	74
	lambda-cyhalothrin	fruits	12.5 g/ha	
		fruits	12.5 g/ha	
	abamectin	vegetables	9 - 21 g/ha	59
	bifenthrin	fruits	30 g/ha	62
	cyfluthrin	fruits	15 g/ha	65
	cypermethrin	fruits	30 g/ha	66
	cyromazine	vegetables	400 g/ha	66
		ornamentals	400 g/ha	
	deltamethrin	fruits	7.5 - 17.5 g/ha	66
	fenpropathrin	fruits	100 g/ha	70
	fenvalerate	fruits	75 g/ha	70
	fenvalerate + fenitrothion	fruits	37.5 - 187.5 g/ha	70 + 69
	imidacloprid	fruits	70 g/ha	73
	lambda-cyhalothrin	fruits	7.5 - 17.5 g/ha	74

PESTS

Pests	Active ingredients	Crops	Doses	Pages
INSECTS <i>(cont'd)</i> Leaf miners <i>(cont'd)</i>	methidathion	fruits	400 - 600 g/ha	75
	methomyl	fruits	500 - 750 g/ha	75
	mevinphos	fruits	500 g/ha	75
	parathion	fruits	186 g/ha	76
	permethrin	vegetables	50 - 75 g/ha	77
Psyllids	phosalone	fruits	600 - 750 g/ha	77
	tau-fluvalinate	fruits	144 g/ha	79
	teflubenzuron	fruits	50 g/ha	79
	thiocyclam	vegetables	150 - 500 g/ha	80
	abamectin	fruits	13.5 g/ha	59
	cypermethrin	fruits	60 g/ha	66
	deltamethrin	fruits	17.5 g/ha	66
	fenvalerate	fruits	100 g/ha	70
	bifenthrin	ornamentals	20 g/ha	62
	chlorpyrifos	fruits	500 g/ha	65
Scale insects	methidathion	vegetables	500 g/ha	75
	parathion	fruits	300 - 600 g/ha	76
	quinalphos	ornamentals	230 g/ha	79
	abamectin	vegetables	363 g/ha	59
		fruits	21.6 g/ha	
		ornamentals	21.6 g/ha	
		vegetables	9 g/ha	
	acrinathrin	fruits	75 g/ha	60
	alpha-cypermethrin	vegetables	60 g/ha	
	bifenthrin	fruits	12.5 g/ha	60
Thrips	cypermethrin + profenofos	vegetables	30 g/ha	62
			40 + 400 g/ha	66 + 78

PESTS

Pests	Active ingredients	Crops	Doses	Pages
INSECTS (<i>cont'd</i>) Thrips (<i>cont'd</i>)	deltamethrin	vegetables	12.5 g/ha	66
	endosulfan	fruits	610 g/ha	68
	formetanate	vegetables	500 g/ha	72
		fruits	500 g/ha	
	lambda-cyhalothrin	vegetables	6.25 g/ha	74
		fruits	17.5 g/ha	
	methomyl	fruits	750 g/ha	75
	tau-fluvalinate	vegetables	72 g/ha	79
Weevils	endosulfan	fruits	610 g/ha	68
	lambda-cyhalothrin	fruits	7.5 - 15 g/ha	74
White flies	bifenthrin	vegetables	40 g/ha	62
		ornamentals	40 g/ha	
	buprofezin	vegetables	132 g/ha	63
		ornamentals	132 g/ha	
	cypermethrin	vegetables	50 g/ha	66
	cypermethrin + profenofos	vegetables	40 + 400 g/ha	66 + 78
	deltamethrin	vegetables	12.5 g/ha	66
	permethrin	vegetables	50 - 75 g/ha	77

PESTS

SOIL BORNE PESTS

Pests	Active ingredients	Crops	Doses	Pages
SOIL INSECTS				
All pests	dazomet	all crops	700 g/ha	117
Cutworms	acephate	all crops	900 g/ha	59
	alpha-cypermethrin	all crops	10 g/ha	60
	carbaryl	all crops	1500 g/ha	63
	cyfluthrin	all crops	15 g/ha	65
	cypermethrin	all crops	30 g/ha	66
	deltamethrin	all crops	7.5 g/ha	66
	lambda-cyhalothrine	all crops	7.5 g/ha	74
	lindane	all crops	1200 g/ha	74
	tralomethrin	vegetables	8.6 g/ha	81
Maggots	benfuracarb	vegetables	400 - 1000 g/ha	61
	carbofuran	vegetables	400 - 1000 g/ha	64
	chlorfenvinphos	vegetables	5000 - 6000 g/ha	64
	diazinon	vegetables	8000 g/ha	67
	fonofos	vegetables	2000 g/ha	71
Weevils	aldicarb	bananas	4000 g/ha	60
	benfuracarb	vegetables	1000 g/ha	61
	cadusafos	bananas	3 g/plant	63
	carbofuran	bananas	3 g/plant	64
	fipronil	bananas	0.3 g/plant	71
	fonofos	bananas	3 g/plant	71
	pirimiphos-ethyl	bananas	4000 g/ha	78
	terbufos	bananas	3 g/plant	80
White grubs	diazinon	all crops	10 kg/ha	67
	fipronil	all crops	150 g/ha	71

PESTS

Pests	Active ingredients	Crops	Doses	Pages
SOIL INSECTS (<i>cont'd</i>)				
	fonofos	all crops	4000 g/ha	71
With the grubs (<i>cont'd</i>)				
	lindane	all crops	1200 g/ha	74
Wireworms	benfuracarb	vegetables	600 g/ha	61
	carbofuran	vegetables	600 g/ha	64
	diazinon	all crops	10 kg/ha	67
	ethoprophos	all crops	4000 g/ha	68
	fipronil	all crops	150 g/ha	71
	fonofos	all crops	4000 g/ha	71
	lindane	all crops	1200 g/ha	74
NEMATODES				
	1,3-dichloropropene	vegetables	190 kg/ha	59
		potatoes	190 kg/ha	
		fruits	560 kg/ha	
		bananas	560 kg/ha	
		ornamentals	260 - 560 kg/ha	
	aldicarb	fruits	10 kg/ha	60
		bananas	2 g/plant	
	cadusafos	bananas	3 g/plant	63
	dazomet	all crops	700 kg/ha	117
	ethoprophos	vegetables	10 kg/ha	68
		potatoes	6 - 10 kg/ha	
		pineapple	20 kg/ha	
		bananas	4.5 g/plant	
	fenamiphos	bananas	3 g/plant	69
	isazofos	bananas	3 g/plant	73
	oxamyl	bananas	3600 g/ha	76
		ornamentals	1000 g/ha	
	terbufos	bananas	3 g/plant	80

PESTS

OTHER PESTS

Pests	Active ingredients	Plants / commodities	Doses	Pages
STORAGE INSECTS	pirimiphos-methyl	grains	0.004 g/kg	78
		premises (spray)	0.2 g/m2	
		premises (fumigation)	0.07 g/m3	
		bags (empty)	0.25 g/m2	
MOLLUSCS	metaldehyde methiocarb thiodicarb	all crops		118
		all crops		118
		all crops	200 g/ha	118
RODENTS	brodifacoum chlorophacinone			117
				117

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Phytophthora	45
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DISEASES

AERIAL DISEASES

Diseases	Active ingredients	Crops	Doses	Pages
Alternaria	chlorothalonil	vegetables	1500 g/ha	86
	difenoconazole	vegetables	125 g/ha	88
	hexaconazole	vegetables	40 g/ha	90
	iprodione	vegetables	750 g/ha	91
	mancozeb	vegetables	1600 g/ha	91
		potatoes	1250 - 1750 g/ha	
	maneb + thiophanate-methyl	vegetables	1500 + 750 g/ha	92 + 95
Anthracnose	benomyl	vegetables	300 - 400 g/ha	85
	chlorothalonil	vegetables	1500 g/ha	86
	mancozeb	vegetables	1600 g/ha	91
		fruits	1600 g/ha	
	maneb + thiophanate-methyl	vegetables	1500 + 750 g/ha	92 + 95
Bacterial spot	copper hydroxide	vegetables	1250 - 2500 g/ha	87
		fruits	1250 - 2500 g/ha	
		ornamentals	500 g/ha	
Botrytis	iprodione	vegetables	750 g/ha	91
		fruits	750 g/ha	
	mancozeb	vegetables	2000 g/ha	91
	maneb + thiophanate-methyl	vegetables	1500 + 750 g/ha	92 + 95
	propineb	vegetables	2100 g/ha	94
	thiophanate-methyl	vegetables	810 g/ha	95
		fruits	675 g/ha	

DISEASES

Diseases	Active ingredients	Crops	Doses	Pages
Brown-rot	benomyl	fruits	300 g/ha	85
	bitertanol	fruits	300 g/ha	85
	flusilazole	fruits	40 g/ha	89
	hexaconazole	fruits	30 g/ha	90
	iprodione	fruits	750 g/ha	91
	pyrifenoxy	fruits	50 g/ha	94
	tebuconazole	fruits	125 g/ha	95
	thiophanate-methyl	fruits	675 g/ha	95
	triforine	fruits	330 g/ha	96
Cercospora	benomyl	bananas	250 g/ha	85
	bromuconazole	bananas	250 g/ha	86
	epoxiconazole	bananas	100 g/ha	88
	mancozebe	vegetables	3200 g/ha	91
	propiconazole	bananas	100 g/ha	93
	tebuconazole	bananas	100 g/ha	95
	tridemorph	bananas	450 g/ha	96
	chlorothalonil	vegetables	1500 g/ha	86
	mancozebe	vegetables	1600 g/ha	91
Cladosporia		fruits	1600 g/ha	
	maneb + thiophanate-methyl	vegetables	1500 + 750 g/ha	92 + 95
	thiophanate-methyl	vegetables	720 g/ha	95
	triforine	vegetables	285 g/ha	96
Downy mildew	chlorothalonil	vegetables	1500 g/ha	86
		potatoes	1500 g/ha	

DISEASES

Diseases	Active ingredients	Crops	Doses	Pages
Downy mildew (<i>cont'd</i>)	copper hydroxide	vegetables	1250 - 2500 g/ha	87
		potatoes	5000 g/ha	
	copper oxychloride	vegetables	665 g/ha	87
	+ mancozeb		+ 1025	+ 91
	+ cupric compounds		+ 410	
		potatoes	665 g/ha	
			+ 1025	
			+ 410	
	copper oxychloride	potatoes	1500 g/ha	87
	+ maneb		+ 500	+ 92
	+ zineb		+ 500	+ 97
	copper oxychloride	vegetables	637.5 g/ha	87
	+ cymoxanil		+ 120	+ 87
	+ folpet		+ 240	+ 89
	+ mancozeb		+ 412.5	+ 91
	cymoxanil + folpet	vegetables	96 + 960 g/ha	87 + 89
	cymoxanil + mancozeb	vegetables	102 + 1190 g/ha	87 + 91
		potatoes	102 + 1190 g/ha	
	cymoxanil	vegetables	80 g/ha	87
	+ mancozeb		+ 1400	+ 91
	+ oxadixyl		+ 200	+ 93
		potatoes	80 g/ha	
			+ 1400	
			+ 200	
	cymoxanil	vegetables	80 g/ha	87
	+ folpet		+ 750	+ 89
	+ oxadixyl		+ 200	+ 93

DISEASES

Diseases	Active ingredients	Crops	Doses	Pages
Downy mildew (cont'd)	folpet + metalaxyl	vegetables	1275 + 225 g/ha	89 + 92
	fosetyl-aluminium	vegetables	3200 g/ha	90
	fosetyl-aluminium	vegetables	3200 g/ha	90
	mancozeb	vegetables	1600 g/ha	91
		potatoes	1260 - 1750 g/ha	
	mancozeb + metalaxyl	vegetables	1600 + 200 g/ha	91 + 92
		potatoes	1600 + 200 g/ha	
	maneb + thiophanate-methyl	vegetables	1500 + 750 g/ha	92 + 95
	metiram	vegetables	1600 g/ha	92
	propineb	vegetables	2100 g/ha	94
		potatoes	2100 g/ha	
	thiophanate-methyl	vegetables	810 g/ha	95
Phytophthora	fosetyl-aluminium	fruits	2000 g/ha	90
	mancozeb + metalaxyl	fruits	1600 + 200 g/ha	91 + 92
Powdery mildew	benomyl	fruits	300 kg/ha	85
	bitteranol	fruits	300 g/ha	85
		ornamentals	300 g/ha	
	chinomethionat	vegetables	75 g/ha	86
		fruits	75 g/ha	
		ornamentals	75 g/ha	
		vegetables	125 g/ha	88
		ornamentals	250 g/ha	
		vegetables	25 - 40 g/ha	88
	fenarimol	fruits	40 g/ha	
		ornamentals	50 g/ha	

DISEASES

Diseases	Active ingredients	Crops	Doses	Pages
Powdery mildew (cont'd)	fenpropimorph	vegetables	750 g/ha	89
	flusilazole	fruits	30 - 40 g/ha	89
	hexaconazole	vegetables	30 - 40 g/ha	90
		fruits	15 - 30 g/ha	
	maneb + thiophanate-methyl	vegetables	1500 + 750 g/ha	93
	penconazole	vegetables	25 - 35 g/ha	93
		fruits	50 g/ha	
	propiconazole	vegetables	125 g/ha	93
		ornamentals	50 g/ha	
	pyrazofos	vegetables	150 g/ha	94
		fruits	300 g/ha	
	pyrifenoxy	fruits	50 g/ha	94
		ornamentals	50 g/ha	
	thiophanate-methyl	vegetables	350 g/ha	95
Rhizoctonia		fruits	700 g/ha	
	triforine	vegetables	285 g/ha	96
		fruits	330 g/ha	
		ornamentals	675 g/ha	
	hexaconazole	vegetables	30 g/ha	90
	iprodione	vegetables	750 g/ha	91
Rust	thiophanate-methyl	vegetables	810 g/ha	95
		ornamentals	300 - 400 g/ha	85
	bitalanol	vegetables	1500 g/ha	86
	chlorothalonil	vegetables	125 g/ha	88
	difenoconazole	ornamentals	250 g/ha	

DISEASES

Diseases	Active ingredients	Crops	Doses	Pages
Rust (cont'd)	hexaconazole	vegetables	40 g/ha	90
	mancozeb	vegetables	1600 - 3200 g/ha	91
		fruits	1600 g/ha	
		ornamentals	1600 g/ha	
	maneb + thiophanate-methyl	vegetables	1500 + 750 g/ha	92 + 95
	propiconazole	vegetables	125 g/ha	93
		ornamentals	50 g/ha	
	tebuconazole	vegetables	250 g/ha	95
	triforine	vegetables	285 g/ha	96
Scab	bitertanol	fruits	185 g/ha	85
	copper hydroxide	fruits	2500 g/ha	87
	copper oxychloride	fruits	665 g/ha	87
	+ mancozeb		+ 1025	+ 91
	+ cupric compounds		+ 410	
	copper oxychloride	fruits	1500 g/ha	87
	+ maneb		+ 500	+ 92
	+ zineb		+ 500	+ 97
	difenoconazole	fruits	375 g/ha	88
	fenarimol	fruits	40 g/ha	88
	flusilazole	fruits	20 g/ha	89
	hexaconazole	fruits	15 g/ha	90
	mancozeb	fruits	1600 g/ha	91
	propineb	fruits	2100 g/ha	94
	triforine	fruits	380 g/ha	96
Sclerotinia	iprodione	vegetables	750 g/ha	91

DISEASES

Diseases	Active ingredients	Crops	Doses	Pages
Septoria	benomyl	vegetables	400 g/ha	85
	copper hydroxide	fruits	2500 g/ha	87
Sooty blotch	mancozeb	vegetables	1600 g/ha	91
	propineb	fruits	1600 g/ha	94
	biterlanol triforine	vegetables	2100 g/ha	94
		fruits	185 g/ha	85
		fruits	330 g/ha	96

POST-HARVEST DISEASES

Diseases	Active ingredients	Plants	Doses	Pages
All fungi	benomyl	bananas (soaking)	25 - 40 g/hl	85
		citrus (soaking)	25 - 40 g/hl	91
	imazail	citrus (soaking)	100 - 150 g/hl	91
		citrus (wax coating)	0.2 - 0.3 g/100 kg	95
	thiabendazole	fruits (soaking)	450 - 900 g/hl	95
		bananas (soaking)	450 g/hl	

DISEASES

SOIL BORNE DISEASES

Diseases	Active ingredients	Crops	Doses	Pages
Alternaria	8-hydroxyquinoline sulfate	all crops	2100 g/ha	85
	dazomet	all crops	700 kg/ha	117
	mancozeb	vegetables	15 kg/ha	91
	thiophanate-methyl	vegetables	675 g/ha	95
Black-rot	maneb + thiophanate-methyl	vegetables	1500 + 750 kg/ha	92 + 95
	thiophanate-methyl	vegetables	720 g/ha	95
Botrytis	8-hydroxyquinoline sulfate	all crops	2100 g/ha	85
	dazomet	all crops	700 kg/ha	117
	mancozeb	vegetables	15 kg/ha	91
Fusarium	8-hydroxyquinoline sulfate	all crops	2100 g/ha	85
	dazomet	all crops	700 kg/ha	117
	thiophanate-methyl	vegetables	675 g/ha	95
Phoma	dazomet	all crops	700 kg/ha	117
Phytophthora	dazomet	all crops	700 kg/ha	117
	folpet + metalaxyl	vegetables	4080 + 720 g/ha	89 + 92
	fosetyl-aluminium	vegetables	80 kg/ha	90
		fruit trees	80 kg/ha	
		ornamentals	80 kg/ha	
	furalaxyl	ornamentals	25 - 100 kg/ha	90
	metalaxyl	vegetables	250 - 500 g/ha	92
		potatoes	250 - 500 g/ha	

DISEASES

Diseases	Active ingredients	Crops	Doses	Pages
Pythium	8-hydroxyquinoline sulfate	all crops	2100 g/ha	85
	dazomet	all crops	700 kg/ha	117
	fosetyl-aluminium	ornamentals	80 kg/ha	90
	furalaxyl	ornamentals	25 - 100 kg/ha	90
	mancozeb	vegetables	15 kg/ha	91
	metalaxyl	vegetables	250 - 500 g/ha	92
Rhizoctonia		potatoes	250 - 500 g/ha	
	dazomet	all crops	700 kg/ha	117
	iprodione	vegetables	750 g/ha	91
	mancozeb	vegetables	15 kg/ha	91
	thiophanate-methyl	vegetables	675 g/ha	95
Sclerotinia	dazomet	all crops	700 kg/ha	117
	iprodione	vegetables	750 g/ha	91
Verticillium	thiophanate-methyl	vegetables	675 g/ha	95

SEED TREATMENTS

Diseases	Active ingredients	Plants	Doses	Pages
Alternaria	iprodione	vegetables	250 g/100 kg	91
Anthracnose	benomyl	vegetables	100 g/100 kg	85
	cymoxanil	legumes	20 g/100 kg	87
	+ mancozeb		+ 350	+ 91
	+ oxadixyl		+ 50	+ 93
Botrytis	iprodione	vegetables	150 -250 g/100 kg	91
	maneb + thiophanate-methyl	vegetables (soaking)	150 + 75 g/hl	92 + 95
	thiophanate-methyl	vegetables (soaking)	180 g/hl	95
Downy mildew	cymoxanil	legumes	20 g/100 kg	87
	+ mancozeb		+ 350	+ 91
	+ oxadixyl		+ 50	+ 93
Fusarium	maneb + thiophanate-methyl	vegetables (soaking)	150 + 75 g/hl	92 + 95
	thiophanate-methyl	vegetables (soaking)	180 g/hl	95
Phoma	iprodione	vegetables	250 g/100 kg	91
Phytophthora	fosetyl-aluminium	pineapple (soaking)	200 g/hl	90
Rhizoctonia	benomyl	potatoes	100 g/100 kg	85
	iprodione	potatoes (soaking)	400 g/hl	91
	mancozeb	potatoes	240 g/100 kg	91
	thiophanate-methyl	potatoes (soaking)	350 g/hl	95
	tolclofos-methyl	potatoes	5 g/100 kg	96

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WEEDS

WEED CONTROL IN CROPS

Weeds	Active ingredients	Crops	Doses	Pages
All weeds	bromacil	pineapple	1600 g/ha	103
	diuron	sugarcane	1800 g/ha	104
		vegetables	600 - 1600 g/ha	
		fruit orchards	1800 g/ha	
		pineapple	1800 g/ha	
		bananas	1600 g/ha	
	diquat	vegetables	600 g/ha	104
		bananas	600 g/ha	
	diuron + paraquat	sugarcane	400 + 800 g/ha	104 + 110
		bananas	400 + 800 g/ha	
	glufosinate-ammonium	all crops	750 g/ha	105
		fruits trees	750 g/ha	
		ornamentals	750 g/ha	
	glyphosate	all crops	1080 - 4320 g/ha	105
		bananas	1080 g/ha	
	glyphosate-trimesium	all crops	1440 - 5760 g/ha	106
		bananas	960 g/ha	
	hexazinone	sugarcane	900 g/ha	106
	paraquat	all crops	600 g/ha	110
		fruit orchards	800 g/ha	
	propyzamide	vegetables	1500 g/ha	111
		fruit orchards	750 g/ha	
Annual broadleaf weeds	ametryn	sugarcane	4000 g/ha	101
		pineapple	3000 g/ha	
		bananas	2500 g/ha	

WEEDS

Weeds	Active ingredients	Crops	Doses	Pages
Annual broadleaf weeds (cont'd)	ametryn + atrazine	sugarcane	1500 + 1500 g/ha	101 + 102
	ametryn + simazine	pineapple	1500 + 1500 g/ha	
		bananas	1000 + 1000 g/ha	101 + 112
		pineapple	1000 + 1000 g/ha	
	atrazine	sugarcane	2000 - 3000 g/ha	102
		pineapple	2000 - 3000 g/ha	
	atrazine + terbutryn	sugarcane	2000 + 2000 g/ha	102 + 112
	carbetamide + oxadiazon	ornamentals	1800 + 2400 g/ha	103 + 110
	chlorthal-dimethyl	vegetables	4500 + 9000 g/ha	103
	2,4-D	sugarcane	1440 g/ha	101
	2,4-D + ioxynil	sugarcane	900 + 150 g/ha	101 + 107
	diquat	all crops	800 g/ha	104
	isoxaben + oryzalin	ornamentals	535 + 2145 g/ha	107 + 109
	isoxaben + trifluralin	ornamentals	625 + 2500 g/ha	107 + 113
	linuron	vegetables	500 - 750 g/ha	107
	linuron + monolinuron	vegetables	357 + 357 g/ha	107 + 109
	metoxuron	vegetables	3200 g/ha	108
	oryzalin	fruit orchards	3840 g/ha	109
		bananas	1920 g/ha	
	oxadiazon	fruit orchards	2000 g/ha	110
		ornamentals	4000 g/ha	
	pendimethalin	vegetables	800 - 1320 g/ha	110
		fruit orchards	3200 g/ha	
	prometryn	vegetables	750 - 1500 g/ha	111
	pyridate	vegetables	900 g/ha	112
	simazine	vegetables	1000 g/ha	112
		fruit orchards	1000 g/ha	
		ornamentals	1000 g/ha	

WEEDS

Weeds	Active ingredients	Crops	Doses	Pages
Annual grasses	ametryn	sugarcane	4000 g/ha	101
		pineapple	3000 g/ha	
		bananas	2500 g/ha	
	ametryn + atrazine	sugarcane	1500 + 1500 g/ha	101 + 102
		pineapple	1500 + 1500 g/ha	
	ametryn + simazine	bananas	1000 + 1000 g/ha	101 + 112
		pineapple	1000 + 1000 g/ha	
	atrazine	sugarcane	2000 - 3000 g/ha	102
		pineapple	2000 - 3000 g/ha	
	atrazine + terbutryn	sugarcane	2000 + 2000 g/ha	102 + 112
	carbetamide + oxadiazon	ornamentals	1800 + 2400 g/ha	103 + 110
	chlorthal-dimethyl	vegetables	4500 + 9000 g/ha	103
	2,4-D	sugarcane	1440 g/ha	101
	2,4-D + ioxynil	sugarcane	900 + 150 g/ha	101 + 107
	fluazifop-P-butyl	vegetables	185 g/ha	105
		fruit orchards	250 g/ha	
		pinapple	250 g/ha	
		bananas	250 g/ha	
		ornamentals	250 g/ha	
	isoxaben + oryzalin	ornamentals	535 + 2145 g/ha	107 + 109
	isoxaben + trifluralin	ornamentals	625 + 2500 g/ha	107 + 113
	linuron	vegetables	500 - 750 g/ha	107
	linuron + monolinuron	vegetables	357 + 357 g/ha	107 + 109
	metoxuron	vegetables	3200 g/ha	108
	oryzalin	fruit orchards	3840 g/ha	109
		bananas	1920 g/ha	
	oxadiazon	fruit orchards	2000 g/ha	110
		ornamentals	4000 g/ha	

WEEDS

Weeds	Active ingredients	Crops	Doses	Pages
Annual grasses (cont'd)	pendimethalin	vegetables	800 - 1320 g/ha	110
		fruit orchards	3200 g/ha	
	prometryn simazine	vegetables	750 - 1500 g/ha	111
		vegetables	1000 g/ha	112
		fruit orchards	1000 g/ha	
Ferns		ornamentals	1000 g/ha	
	asulam	sugarcane	3600 g/ha	102
		vegetables	600 g/ha	
Perennial grasses	fluazifop-P-butyl	fruit orchards	750 g/ha	105
		pinapple	750 g/ha	
		bananas	750 g/ha	
		ornamentals	750 g/ha	

WEEDS

WEED CONTROL IN PASTURES, FORESTS AND NON-CROP LANDS

Weeds	Active ingredients	Uses	Doses	Pages
All weeds	2,4-D	pastures	660 g/ha	101
	+ MCPA		+ 570	+ 108
	+ picloram	forests	+ 22.5	+ 111
	hexazinone		1800 g/ha	106
	amitrole	non-crop land	2500 g/ha	102
	+ bromacil		+ 700	+ 103
	+ diuron		+ 2000	+ 104
	amitrole	non-crop land	1000 g/ha	102
	+ bromacil		+ 700	+ 103
	+ diuron		+ 2000	+ 104
Annual broadleaf weeds	+ ammonium thiocyanate	non-crop land	+ 900	106
	imazapyr		2000 g/ha	
	2,4-D + mecoprop	pastures	500 + 2000 g/ha	101 + 108
	2,4-D + MCPA	pastures	660 + 570 g/ha	101 + 108
	metsulfuron-methyl	pastures	20 - 30 g/ha	109
Annual grasses	2,4-D + mecoprop	pastures	500 + 2000 g/ha	101 + 108
	2,4-D + MCPA	pastures	660 + 570 g/ha	101 + 108
	fluazifop-P-butyl	forests	750 g/ha	105
Brushwood	2,4-D + dichlorprop	forests	3600 + 3600 g/ha	101 + 104
		non-crop land	3600 + 3600 g/ha	
	2,4-D + picloram	non-crop land	2400 + 650 g/ha	101 + 111
	triclopyr	pastures	3600 g/ha	113
	picloram	forests	3600 g/ha	
		non-crop land	2400 g/ha	111

WEEDS

Weeds	Active ingredients	Uses	Doses	Pages
Ferns	asulam	forests	4000 g/ha	102
Perennial grasses	fluazifop-P-butyl	forests	750 g/ha	105
Perennial weeds	triclopyr	forests pastures	960 g/ha 1200 g/ha	113

DESSICANTS

Active ingredients	Crops	Doses	Pages
diquat	potatoes	1000 g/ha	104
glufosinate-ammonium	potatoes	600 g/ha	105
paraquat	potatoes	1000 g/ha	110

PART III

ACTIVE INGREDIENTS

Insecticides

Acaricides

Nematicides



INSECTICIDES, ACARICIDES, NEMATOCIDES

1,3-dichloropropene

WHO : Table 7

Toxicity to man

Toxic if swallowed.
Harmful by inhalation and in contact with skin.
Irritating to eyes, respiratory system and skin.
May cause sensitisation by skin contact.

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Mode of action

Soil fumigant nematocide. Also has secondary insecticidal and fungicidal activity.

Other information

Phytotoxic.
Rapidly degraded in soil. Does not accumulate in the environment.

Products & pages 135 D-D 92
138 DORLONE 2000

Abamectin

WHO :

Toxicity to man

Very toxic if swallowed.

Ecotoxicity

Dangerous to fish and bees.

Mode of action

Insecticide and acaricide with contact and stomach action. Acts by stimulating the release of GABA, an inhibitory neurotransmitter, thus causing an irreversible paralysis.

Other information

Non-phytotoxic when used as directed.
Has limited plant systemic activity but with a proper application, abamectin penetrates the leaf tissue forming an abamectin reservoir within the leaf. Rapidly degraded by soil micro-organisms. Does not accumulate in the environment.

Products & pages 174 VERTIMEC

Acephate

WHO : III

organophosphorus

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Dangerous to bees.

Mode of action

Systemic insecticide with contact and stomach action. Cholinesterase inhibitor.

Other information

Non-phytotoxic to most crops.
Moderate residual activity. Rapidly degraded in soil.

Products & pages 155 ORTHENE 50

Acrinathrin

WHO : III

pyrethroid

Toxicity to man

Harmful by inhalation.

Ecotoxicity

Dangerous to fish.

Mode of action

Acaricide and insecticide with contact and stomach action. Mostly used as acaricide.

Other information

Non-phytotoxic when used as directed. Strongly adsorbed onto soil and immobile. Low solubility in water. Acrinathrin does not present a significant hazard under field conditions.

Products & pages 164 RUFAST

Aldicarb

WHO : Ia

carbamate

Toxicity to man

Very toxic in contact with skin and if swallowed.

Ecotoxicity

Dangerous to fish and fauna.

Mode of action

Systemic insecticide with contact and stomach action. Also used against mites and nematodes. Absorbed through the roots and translocated acropetally. Cholinesterase inhibitor.

Other information

Long residual activity (50 days).

Products & pages 170 TEMIK 10 G

Alpha-cypermethrin

WHO : II

pyrethroid

Toxicity to man

Toxic if swallowed.

Ecotoxicity

Dangerous to fish.

Mode of action

Non-systemic insecticide with contact and stomach action. Also exhibits anti-feeding and repellent action.

Other information

Non-phytotoxic when used as directed. Effective at low rates.

Products & pages 140 FASTAC

INSECTICIDES, ACARICIDES, NEMATOCIDES

Azocyclotin

WHO : II

Toxicity to man

Harmful by inhalation, in contact with skin and if swallowed.

Ecotoxicity

Dangerous to fish.

Mode of action

Acaricide with stomach and contact action. Effective against motile stages of mites. Has also some ovicidal activity.

Other information

Non-phytotoxic when used as directed. Long residual activity on treated plants.

Products & pages 157 PEROPAL

Bacillus thuringiensis

WHO :

biological agent

Toxicity to man

Ecotoxicity

Mode of action

Bacillus thuringiensis is an aerobic spore-forming gram positive bacterium. At sporulation, crystals of protein, the d-endotoxin are formed. These crystals have insecticidal properties. d-endotoxins are insecticides with exclusive stomach action. Following ingestion, the epithelial cells of the midgut are damaged and destroyed by the d-endotoxin, insects quickly stop feeding and eventually starve to death.

Other information

Subspecies of *Bacillus thuringiensis* have very selective insecticide properties. Since they are also very safe to man and the environment, their use is suitable for integrated pest management strategies.

Products & pages 123 AGREE 50 WP
127 BACTOSPEINE WP
138 DIPEL WP

Benfuracarb

WHO : Ib

carbamate

Toxicity to man

Toxic if swallowed.

Ecotoxicity

Dangerous to fish.

Mode of action

Insecticide with contact and stomach action. Cholinesterase inhibitor.

Other information

Non-phytotoxic when used as directed. Rapidly degraded and metabolised to carbofuran (see this compound) or carbofuran phenol depending on soil conditions.

Products & pages 155 ONCOL S

Benzoximate

WHO : Table 5

Toxicity to man

Ecotoxicity

Dangerous to fish.

Mode of action

Non-systemic acaricide with contact and stomach action.

Other information

Non-phytotoxic when used as directed.
Rapidly degraded in soils.

Products & pages 126 ARTABAN

Bifenthrin

WHO : II

pyrethroid

Toxicity to man

Toxic if swallowed.

Ecotoxicity

Dangerous to fish.

Mode of action

Non-systemic insecticide and acaricide with contact and stomach action.

Other information

Non-phytotoxic when used as directed.

Products & pages 157 PERCUT (+ clofentezine)
167 SLALOM (+ dicofol)
170 TALSTAR

Bromopropylate

WHO : Table 5

Toxicity to man

Ecotoxicity

Mode of action

Non-systemic acaricide with contact action.

Other information

Slight injury has been observed on certain varieties of apples.
Long residual activity.

Products & pages 154 NEORON 250 EC

INSECTICIDES, ACARICIDES, NEMATICIDES

Buprofezin

WHO : Table 5

Toxicity to man

Ecotoxicity

Mode of action

Insecticide and acaricide with contact and stomach action. Inhibits moults of final instar larvae and nymphs, thus causing death. Treated insects lay non-viable eggs.

Other information

Slightly phytotoxic to Chinese cabbage and turnips.

Products & pages 126 APPLAUD FL

Cadusafos

WHO : II

organophosphorus

Toxicity to man

Very toxic by inhalation and in contact with skin. Toxic if swallowed.

Ecotoxicity

Dangerous to fish and fauna.

Mode of action

Insecticide with contact and stomach action. Cholinesterase inhibitor.

Other information

May cause injury if it comes in contact with the seeds of certain plants. Cadusafos has low mobility in soil. Slowly degraded, it has long residual activity in soil.

Products & pages 165 RUGBY 10 G

Carbaryl

WHO : II

carbamate

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Dangerous to fish and bees.

Mode of action

Insecticide with contact and stomach action, and slight systemic properties. Weak cholinesterase inhibitor.

Other information

Slightly phytotoxic. Rapidly degraded in soil.

Products & pages 166 SEVIN 80 S
166 SEVIN 85 WP

Carbofuran

WHO : Ib

carbamate

Toxicity to man

Very toxic by inhalation and if swallowed.

Ecotoxicity

Dangerous to fish and fauna.

Mode of action

Systemic insecticide and nematicide with mainly contact and stomach action. Cholinesterase inhibitor.

Other information

Non-phytotoxic when used as directed.
Long residual activity in soil (50 days).

Products & pages 142 FURADAN 10 G
 142 FURADAN 5 G

Chinomethionat

WHO : Table 5

Toxicity to man

Irritating to eyes.
May cause sensitisation by skin contact.

Ecotoxicity

Dangerous to fish and some beneficial arthropods.

Mode of action

Control of summer eggs and motile stages of mites. Also has fungicidal activity (see page 86).

Other information

Phytotoxic to ornamentals and some varieties of apple and pear.

Products & pages 153 MORESTAN

Chlorfenvinphos

WHO : Ia

organophosphorus

Toxicity to man

Very toxic if swallowed.
Toxic in contact with skin.

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Dangerous to bees and fauna.

Mode of action

Insecticide with contact and stomach action. Cholinesterase inhibitor.

Other information

Non-phytotoxic when used as directed.
Long residual activity in soil.

Products & pages 159 PSILATOX GRANULES 5

INSECTICIDES, ACARICIDES, NEMATOCIDES

Chlorpyrifos

WHO : II

organophosphorus

Toxicity to man

Toxic in contact with skin and if swallowed.

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Dangerous to bees.

Mode of action

Non-systemic insecticide with contact, stomach and vapour action.

Other information

Non-phytotoxic when used as directed. It is slowly degraded with a half life of 60-120 days. It resists a long time to leaching and unexpected effects may occur because of accumulation in soils.

Products & pages

139 DURSBAN 2

Clofentezine

WHO : Table 5

Toxicity to man

Ecotoxicity

Mode of action

Acaricide with contact action. Control of eggs and larvae (not effective against adults). Good translaminar activity.

Other information

Non-phytotoxic when used as directed except to some ornamentals.

Products & pages

126 APPOLO 50 SC
157 PERCUT (+ bifenthrin)

Cyfluthrin

WHO : II

pyrethroid

Toxicity to man

Toxic by inhalation and if swallowed.

Ecotoxicity

Dangerous to fish.

Mode of action

Non-systemic insecticide with contact and stomach action. 161Rapid knock-down and long residual activity.

Other information

Non-phytotoxic when used as directed. Rapidly degraded in soil. Low mobility. Finally degraded to carbon dioxide by soil micro-organisms.

Products & pages

130 BAYTHROID EC 050

Cypermethrin

WHO : II

pyrethroid

Toxicity to man

Harmful by inhalation and if swallowed.
Irritating to eyes and skin.
May cause sensitisation by skin contact.

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Toxic to bees.

Mode of action

Non-systemic insecticide with contact and stomach action. Also exhibits anti-feeding action.

Other information

Non-phytotoxic.
Good residual activity on treated plants.

Products & pages	124	AMBUSH C
	134	CYMPERATOR 10 FOG
	137	DEMON 40 WP
	137	DEMON TC
	147	KAFFIL SUPER 25 EC
	166	SHERPA 10 EC
	170	TAMBO 440 EC (+ profenofos)

Cyromazine

WHO : Table 5

Toxicity to man

Ecotoxicity

Mode of action

Systemic insecticide with contact action, only effective against larvae. Acts as an insect growth regulator which interferes with moulting and pupation.

Other information

Non-phytotoxic when used as directed.
Cyromazine and its main metabolite melamine are moderately mobile. They are efficiently degraded by biological mechanisms.

Products & pages	173	TRIGARD 75 WP
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Deltamethrin

WHO : II

pyrethroid

Toxicity to man

Toxic by inhalation and if swallowed.

Ecotoxicity

Dangerous to fish.

Mode of action

Non-systemic insecticide with contact and stomach action. Fast-acting insecticide with some repellent activity.

Other information

Non-phytotoxic.
Degraded by soil micro-organisms within a week. No risk of leaching.

Products & pages	136	DECIS B (+ heptenophos)
	136	DECIS CE
	136	DECIS FLO

INSECTICIDES, ACARICIDES, NEMATOCIDES

Diazinon

WHO : II

organophosphorus

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Dangerous to bees and fauna.

Mode of action

Insecticide and acaricide with contact, stomach and respiratory action. Cholinesterase inhibitor.

Other information

Non-phytotoxic when used as directed. Strongly adsorbed onto soil

Products & pages

128	BASUDIN 10 G
128	BASUDIN 40 WP
129	BASUDIN 5 G
129	BASUDIN 600 EC
129	BASUDINE 20 L

Dichlorvos

WHO : Ib

organophosphorus

Toxicity to man

Toxic in contact with skin and if swallowed.

Ecotoxicity

Dangerous to fish, bees and fauna.

Mode of action

Insecticide and acaricide with contact, respiratory and stomach action. Rapid knockdown but poor residual activity. Cholinesterase inhibitor.

Other information

Do not use on cucurbits.
Non-persistent in the environment.

Products & pages

154	NOGOS 500 EC
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Dicofol

WHO : III

organochlorine

Toxicity to man

Harmful in contact with skin and if swallowed. Irritating to skin. May cause sensitisation by skin contact.

Ecotoxicity

Dangerous to fish.

Mode of action

Acaricide with contact action against mobile stages of all species of spider mites and their summer eggs.

Other information

Injury has occurred on eggplant. Low mobility in soil.

Products & pages

131	CARBAX 360
148	KELTHANE 50 L
167	SLALOM (+ bifenthrin)

Dimethoate

WHO : II

organophosphorus

Toxicity to man

Harmful in contact with skin and if swallowed.

Ecotoxicity

Dangerous to fish, bees and fauna.

Mode of action

Systemic insecticide and acaricide with contact and stomach action. Cholinesterase inhibitor.

Other information

Non-phytotoxic when used as directed, except to some varieties of lemon, peach, tomato, bean, apples and some ornamentals.

Products & pages

157 PERFETHION
163 ROGOR 50

Endosulfan

WHO : II

organochlorine

Toxicity to man

Toxic in contact with skin and if swallowed.
Irritating to eyes.

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Dangerous to fauna.

Mode of action

Non-systemic insecticide and acaricide with contact and stomach action.

Other information

Endosulfan is mostly non-phytotoxic.
Slowly degraded in soils.

Products & pages

139 DRIFENE AP (+ parathion)
165 SERK EC (+ thiometon)
171 THIODAN 50 WP

Ethoprophos

WHO : Ia

organophosphorus

Toxicity to man

Very toxic in contact with skin.
Toxic if swallowed.

Ecotoxicity

Dangerous to fish and fauna.

Mode of action

Non-systemic insecticide and nematocide. Cholinesterase inhibitor with excellent contact action.

Other information

Non-phytotoxic when used as directed.

Products & pages

153 MOCAP 10 G
153 MOCAP 20 EC

INSECTICIDES, ACARICIDES, NEMATOCIDES

Fenamiphos

WHO : Ia

organophosphorus

Toxicity to man

Very toxic if swallowed.
Toxic in contact with skin.

Ecotoxicity

Dangerous to fish, bees and fauna.

Mode of action

Systemic nematocide with contact action.
Absorbed by the roots. Cholinesterase inhibitor.

Other information

Non-phytotoxic when applied to the soil.
Readily degradable in water, degradable on
soil surfaces. Low mobility in soil. Fenamiphos
has long residual activity in soil (4 months).

Products & pages 153 NEMACUR 5
 154 NEMACUR GR 10

Fenbutatin oxide

WHO : Table 5

organotin

Toxicity to man

Harmful in contact with skin.
Irritating to eyes and skin.

Ecotoxicity

Dangerous to fish.

Mode of action

Non-systemic acaricide with contact and
stomach action.

Other information

Non-phytotoxic, except to some ornamentals.
Long residual control.

Products & pages 143 GEMM (+ flufenoxuron)
 172 TORQUE S

Fenitrothion

WHO : II

organophosphorus

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Very toxic to aquatic organisms, may cause
long-term adverse effects in the aquatic
environment.

Dangerous to bees and fauna.

Mode of action

Non-systemic insecticide with contact and
stomach action. Cholinesterase inhibitor.

Other information

Non-phytotoxic when used as directed.

Products & pages 168 SUMICOMBI (+ fenvalerate)

INSECTICIDES, ACARICIDES, NEMATICIDES

Fenpropathrin

WHO : II

pyrethroid

Toxicity to man

Very toxic by inhalation.
Toxic if swallowed.

Ecotoxicity

Dangerous to fish and bees.

Mode of action

Acaricide and insecticide with repellent, contact and stomach action. Rapid knockdown.

Other information

Non-phytotoxic when used as directed.
Good residual activity.
Rapidly degraded in water. Duration of activity in soil is approximately 1 to 5 days.

Products & pages 135 DANITOL 10 EC

Fenthion

WHO : II

organophosphorus

Toxicity to man

Toxic if swallowed.
Harmful in contact with skin.

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Dangerous to bees and fauna.

Mode of action

Insecticide with contact, stomach and respiratory action. Cholinesterase inhibitor.

Other information

Non-phytotoxic when used as directed.
Long residual activity.
Rapidly degraded in soil under aerobic conditions.

Products & pages 151 LEBAYCID EC 50

Fenvalerate

WHO : II

pyrethroid

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Dangerous to fish.

Mode of action

Non-systemic insecticide and acaricide with contact and stomach action.

Other information

Non-phytotoxic when used as directed.
Good residual activity.
Inherently biodegradable.

Products & pages 168 SUMICIDIN 10
168 SUMICOMBI (+ fenitrothion)

INSECTICIDES, ACARICIDES, NEMATICIDES

Fipronil

phenyl pyrazole

WHO :

Toxicity to man

Toxic by inhalation, in contact with skin and if swallowed.

Toxic: danger of serious damage to health by prolonged exposure if swallowed.

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Toxic to fauna.

Toxic to bees.

Mode of action

Insecticide with contact and stomach action. Blocker of the GABA-regulated chloride channel.

Other information

Effective at very low rates.

Control of insects tolerant to pyrethroid, organophosphorus, organochlorine and carbamate insecticides (resistance to fipronil has not yet been demonstrated).

Products & pages

161 REGENT 5 GR

Flufenoxuron

benzoylurea

WHO : Table 5

Toxicity to man

Possible risk of irreversible effects.

Ecotoxicity

Dangerous to fish.

Mode of action

Insect and acarid growth regulator with stomach and contact action. Interferes with the synthesis of chitin, thus causing death of larvae between moults. Treated females lay non-viable eggs.

Other information

Non-phytotoxic.

Products & pages

143 GEMM (+ fenbutatin oxide)

Fonofos

organophosphorus

WHO : Ia

Toxicity to man

Very toxic in contact with skin and if swallowed.

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Dangerous to bees.

Mode of action

Insecticide with contact and stomach action. Cholinesterase inhibitor.

Other information

Non-phytotoxic when used as directed.

Products & pages

139 DYFONATE 5 G

Formetanate

WHO : Ib

carbamate

Toxicity to man

Very toxic if swallowed.

Ecotoxicity

Dangerous to bees.

Mode of action

Insecticide and acaricide with contact and stomach action. Cholinesterase inhibitor.

Other information

Non-phytotoxic when used as directed. Rapidly degraded in soil.

Products & pages 137 DICARZOL 200

Formothion

WHO : II

organophosphorus

Toxicity to man

Harmful in contact with skin and if swallowed.

Ecotoxicity

Dangerous to fish and bees.

Mode of action

Systemic insecticide with contact and low stomach action. Cholinesterase inhibitor.

Other information

Non-phytotoxic.
In soil and in plants, formothion is rapidly metabolised to dimethoate (see this compound) and other related metabolites.

Products & pages 125 ANTHIO FORT

Heptenophos

WHO : Ib

organophosphorus

Toxicity to man

Toxic if swallowed.

Ecotoxicity

Dangerous to bees.

Mode of action

Systemic insecticide with contact, stomach and respiratory action. Readily penetrates the plant tissues and quickly translocated in all directions. Cholinesterase inhibitor.

Other information

Non-phytotoxic when used as directed. Insecticide providing a quick knockdown and short residual effect.

Products & pages 136 DECIS B (+ deltamethrin)

INSECTICIDES, ACARICIDES, NEMATOCIDES

Hexythiazox

WHO : Table 5

Toxicity to man

Ecotoxicity

Mode of action

Non-systemic acaricide with contact and stomach action. Good translaminar activity. Control of eggs, larvae and pupae of mites. Not active against adults, but eggs laid by treated females are non-viable.

Other information

Non-phytotoxic to most crops.

Products & pages 132 CESAR

Imidacloprid

WHO : II

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Mode of action

Systemic insecticide with contact and stomach action. Acts on the central nervous system.

Other information

Non-phytotoxic when used as directed. Very low mobility in soil.

Products & pages 132 CONFIDOR SC 350

Isazofos

WHO : Ib

organophosphorus

Toxicity to man

Toxic by inhalation, in contact with skin and if swallowed.

Ecotoxicity

Dangerous to fauna.

Mode of action

Systemic insecticide and nematocide with contact and stomach action. Inhibits cholinesterase.

Other information

Phytotoxic to potatoes and tobacco.

Products & pages 152 MIRAL 10 G

Lambda-cyhalothrin

WHO : II

pyrethroid

Toxicity to man

Very toxic by inhalation.
Toxic if swallowed.

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Mode of action

Non-systemic insecticide with contact and stomach action and repellent properties.

Other information

Non-phytotoxic when used as directed.

Products & pages 132 COMMODORE 10 WP
 148 KARATE 2.5 EC

Lindane

WHO : II

organochlorine

Toxicity to man

Toxic by inhalation, in contact with skin and if swallowed.
Irritating to eyes and skin.

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Dangerous to bees and fauna.

Mode of action

Insecticide with contact, stomach and respiratory action.

Other information

Plant damage will occur if used in excessive amounts.

Relatively long residual effects.

Very long persistence in soil. Approximately 60% of the lindane applied in soil is eliminated within a year.

Products & pages 143 GAMMA COL
 143 GAMMALIN 20

INSECTICIDES, ACARICIDES, NEMATOCIDES

Methidathion

WHO : Ib

organophosphorus

Toxicity to man

Very toxic if swallowed.
Harmful in contact with skin.

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Dangerous to bees and fauna.

Mode of action

Non-systemic insecticide with contact and stomach action. Cholinesterase inhibitor.

Other information

Non-phytotoxic when used as directed.
Relatively long residual effectiveness.
Rapidly degraded in soil and water by chemical, photolytic and biological processes.
Low mobility in soil.

Products & pages 173 ULTRACIDE 20 LIQUIDE

Methomyl

WHO : Ib

oxime carbamate

Toxicity to man

Very toxic if swallowed.

Ecotoxicity

Dangerous to fish and bees.

Mode of action

Systemic insecticide and acaricide with contact and stomach action. A fast-acting cholinesterase inhibitor.

Other information

Non-phytotoxic when used as recommended.
Rapidly degraded in soil.

Products & pages 150 LANNATE 20 L

Mevinphos

WHO : Ia

organophosphorus

Toxicity to man

Very toxic in contact with skin and if swallowed.

Ecotoxicity

Dangerous to fish, bees and fauna.

Mode of action

Systemic insecticide and acaricide with contact, stomach and respiratory action. Cholinesterase inhibitor.

Other information

Non-phytotoxic.
Provides rapid knock-down, but short residual activity.

Products & pages 157 PHOSDRIN W 10

INSECTICIDES, ACARICIDES, NEMATICIDES

Oxamyl

WHO : Ib

oxime carbamate

Toxicity to man

Very toxic by inhalation and if swallowed.
Harmful in contact with skin.

Ecotoxicity

Dangerous to fish and bees.

Mode of action

Systemic insecticide, acaricide and nematicide with effective direct contact and stomach action. Fast-acting anticholinesterase agent.

Other information

Non phytotoxic when used as directed.
Poor residual activity.
Decomposes readily to carbon dioxide and organosoluble degradation products in water and soil.

Products & pages 174 VYDATE L

Oxydemeton-methyl

WHO : Ib

organophosphorus

Toxicity to man

Toxic in contact with skin and if swallowed.

Ecotoxicity

Very toxic to aquatic organisms.
Dangerous to bees and fauna.

Mode of action

Systemic insecticide with contact and stomach action. Cholinesterase inhibitor.

Other information

Injury to certain ornamentals has been reported, especially in combination with other pesticides.
Rapid knockdown and long residual activity.
Rapidly degraded in soil.

Products & pages 152 METASYSTOX R 250 EC

Parathion

WHO : Ia

organophosphorus

Toxicity to man

Very toxic in contact with skin and if swallowed.

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Dangerous to bees and fauna.

Mode of action

Non-systemic insecticide with contact, stomach and respiratory action. Cholinesterase inhibitor.

Other information

Non-phytotoxic except to some ornamentals and cucurbits.
Efficacy of parathion is enhanced by temperatures above 18°C.

Products & pages 139 DRIFENE AP (+ endosulfan)
156 PACOL 4,5

INSECTICIDES, ACARICIDES, NEMATOCIDES

Permethrin

WHO : II

pyrethroid

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Dangerous to fish and bees.

Mode of action

Non-systemic insecticide with contact and stomach action. Also exhibits repellent action.

Other information

Non-phytotoxic when used as recommended.
Good residual activity on treated plants.
Rapidly degraded in soil and water.

Products & pages 124 AMBUSH 10 EC
 124 AMBUSH 50 EC

Phosalone

WHO : II

organophosphorus

Toxicity to man

Toxic if swallowed.
Harmful in contact with skin.

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Mode of action

Non-systemic insecticide with contact and stomach action. Cholinesterase inhibitor.

Other information

Non-phytotoxic when used as directed.
Good residual activity.
Low mobility in soil and rapidly degraded.

Products & pages 175 ZOLONE FLO
 175 ZOLONE LIQUIDE

Pirimicarb

WHO : II

carbamate

Toxicity to man

Toxic if swallowed.

Ecotoxicity

Mode of action

Systemic insecticide with contact, stomach and respiratory action. Cholinesterase inhibitor.

Other information

Non-phytotoxic when used as recommended.
Fast-acting control of aphids. Also effective against organophosphorus resistant strains.
Selective to many beneficial insects.

Products & pages 161 RAPID

INSECTICIDES, ACARICIDES, NEMATOCIDES

Pirimiphos-ethyl

WHO : Ib

organophosphorus

Toxicity to man

Toxic if swallowed.
Harmful in contact with skin.

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Dangerous to bees.

Mode of action

Insecticide with contact and respiratory action.

Other information

Non-phytotoxic when used as directed.

Products & pages 130 BULLIT
 158 PRIMICID 50 EC

Pirimiphos-methyl

WHO : III

organophosphorus

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Dangerous to fish and bees.

Mode of action

Insecticide with contact, ingestion and respiratory action.

Other information

Control of a wide range of insects and mites on crops, in warehouses, stored grain and industrial premises.

Products & pages 121 ACTELIC 50 EC
 121 ACTELIC DUST 2%
 121 ACTELIC LIQUIDE
 121 ACTELIC SG 20

Profenofos

WHO : II

organophosphorus

Toxicity to man

Harmful by inhalation, in contact with skin and if swallowed.

Ecotoxicity

Dangerous to fish and bees.

Mode of action

Non-systemic insecticide and acaricide with contact and stomach action. Cholinesterase inhibitor. Has ovicidal properties.

Other information

Non-phytotoxic when used as directed.
Rapidly degraded in soil.

Products & pages 170 TAMBO 440 EC (+ cypermethrin)

INSECTICIDES, ACARICIDES, NEMATOCIDES

Quinalphos

WHO : II

organophosphorus

Toxicity to man

Toxic if swallowed.
Harmful in contact with skin.

Ecotoxicity

Dangerous to bees.

Mode of action

Insecticide and acaricide with contact and stomach action. Penetrates the plant tissues through translaminar action. Cholinesterase inhibitor.

Other information

Slight injury has been observed on certain fruit trees.
Rapidly degraded under aerobic conditions in soil.

Products & pages
140 EKALUX
140 EKALUX FORTE

Tau-fluvalinate

WHO : Table 5

pyrethroid

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Dangerous to fish.

Mode of action

Insecticide and acaricide with contact and stomach action.

Other information

Non-phytotoxic when used as directed.
Rapidly degraded under aerobic conditions in soil.

Products & pages
149 KLARTAN
151 MAVRIK FLO

Teflubenzuron

WHO : Table 5

benzoylurea

Toxicity to man

Ecotoxicity

Mode of action

Non-systemic insect growth regulator with stomach action. Interferes with the synthesis of chitin, thus causing death of larvae between moults. May affect fertility of female insects after contact or ingestion.

Other information

Non-phytotoxic when used as directed.
Microbial degradation occurs in soil with rapid metabolism. Low persistence in the soil.

Products & pages
135 DART
154 NOMOLT SC

INSECTICIDES, ACARICIDES, NEMATICIDES

Terbufos

WHO : Ia

Toxicity to man

Very toxic in contact with skin and if swallowed.

Ecotoxicity

Dangerous to bees, fish and fauna.

Mode of action

Soil insecticide and nematocide with contact and stomach action. Cholinesterase inhibitor.

Other information

Non-phytotoxic when used as directed.
Rapidly degraded in soil.

Products & pages 133 COUNTER 10 G

Thiocyclam

WHO : II

nerieistoxin-derivative

Toxicity to man

Harmful in contact with skin and if swallowed.

Ecotoxicity

Dangerous to fish and bees.

Mode of action

Selective insecticide with contact and stomach action.

Other information

Non-phytotoxic when used as directed.
Rapidly metabolised in soil.

Products & pages 140 EVISECT S

Thiometon

WHO : Ib

organophosphorus

Toxicity to man

Toxic if swallowed.
Harmful in contact with skin.

Ecotoxicity

Dangerous to fish and bees.

Mode of action

Systemic insecticide and acaricide with contact and stomach action. Cholinesterase inhibitor.

Other information

Non-phytotoxic except to some ornamentals.
Rapidly degraded in soil.

Products & pages 165 SERK EC (+ endosulfan)

Tralomethrin

WHO : II

pyrethroid

Toxicity to man

Toxic by inhalation and if swallowed.

Ecotoxicity

Dangerous to fish.

Mode of action

Non-systemic insecticide with contact and stomach action.

Other information

Non-phytotoxic.
Strongly adsorbed in soil. No risk of leaching.

Products & pages 172 TRACKER 108 EC

Triazamate

WHO :

Toxicity to man

Toxic by inhalation and if swallowed.
May cause sensitisation by skin contact.

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Toxic to fauna.

Mode of action

Fast-acting systemic aphicide with contact and stomach action. Cholinesterase inhibitor.

Other information

Non-phytotoxic when used as directed.
Rapidly degraded in the environment. Low potential for accumulation.

Products & pages 127 AZTEC

Vamidothion

WHO : lb

organophosphorus

Toxicity to man

Toxic if swallowed.
Harmful in contact with skin.

Ecotoxicity

Very toxic to aquatic organisms.
Dangerous to bees.

Mode of action

Systemic insecticide with stomach action.
Cholinesterase inhibitor.

Other information

Non-phytotoxic when used as directed.
Long residual activity.
Rapidly degraded in soil.

Products & pages 149 KILVAL

Fungicides

FUNGICIDES

8-hydroxyquinoline sulfate

WHO : Table 6

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Mode of action

Systemic fungicide and bactericide for soil treatment.

Other information

Non-phytotoxic.

Products & pages

133 CRYPTONOL LIQUIDE

Benomyl

WHO : Table 5

benzimidazole

Toxicity to man

Possible risk of irreversible effects.

Ecotoxicity

Dangerous to fish.

Mode of action

Systemic fungicide with protective and curative action. Absorbed through the leaves and roots, with translocation principally acropetally.

Other information

Non-phytotoxic when used as directed. Benomyl is rapidly converted to carbendazim in the environment

Products & pages

130 BENLATE 50 WP
130 BENLATE OD

Bitertanol

WHO : Table 5

triazole

Toxicity to man

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Ecotoxicity

Mode of action

Foliar fungicide with protective and curative and also eradicating action. Ergosterol biosynthesis inhibitor.

Other information

Non-phytotoxic when used as directed. Degradation in soil is rapid. Carbon dioxide is the major metabolite in soil. Low mobility in soil.

Products & pages

129 BAYCOR EC 300

FUNGICIDES

Bromuconazole

WHO : NC

triazole

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Mode of action

Systemic fungicide with preventive and curative action. Ergosterol biosynthesis inhibitor.

Other information

Bromuconazole is slowly degraded in soil. Very low mobility in soil.

Products & pages 173 VECTRA BN

Chinomethionat

WHO : Table 5

Toxicity to man

Irritating to eyes.
May cause sensitisation by skin contact.

Ecotoxicity

Dangerous to fish and some beneficial arthropods.

Mode of action

Contact fungicide with protective and eradicant action for the control of powdery mildew. Also has acaricidal activity (see page 64).

Other information

Phytotoxic to ornamentals and some varieties of apple and pear.

Products & pages 153 MORESTAN

Chlorothalonil

WHO : Table 5

Toxicity to man

Possible risk of irreversible effects.

Ecotoxicity

Dangerous to fish.

Mode of action

Non-systemic fungicide with protective action. Inhibits enzymatic reactions, thus causing death of fungi.

Other information

Non-phytotoxic when used as directed. Chlorothalonil is strongly adsorbed onto water sediments and degraded chemically and microbiologically within a few days. In soil, chlorothalonil is degraded within a few weeks.

Products & pages 134 DACONIL 2787 W 75
134 DACONIL 500

FUNGICIDES

Copper hydroxide

WHO : III

inorganic

Toxicity to man

Ecotoxicity

Dangerous to fish.

Mode of action

Foliar fungicide and bactericide with preventive action.

Other information

Non-phytotoxic when used as directed. Do not use on copper-sensitive varieties of citrus.

Products & pages 150 KOCIDE 101 PM

Copper oxychloride

WHO : III

inorganic

Toxicity to man

Ecotoxicity

Dangerous to fish.

Mode of action

Foliar fungicide with preventive action.

Other information

Non-phytotoxic when used as directed, except to carrots and potatoes under certain conditions. Do not use on copper-sensitive crops.
Strongly adsorbed by soils.

Products & pages 132 COPRAREX
133 CUPROSAN 311 SD (+ maneb / zineb)
173 TRIMILTOX FORT (+ mancozeb / cupric compounds)
169 SYPHAL LS (+ cymoxanil / folpet / mancozeb)

Cymoxanil

WHO : III

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Mode of action

Other information

Products & pages 124 ANTEOR FLO (+ folpet)
141 FULVAX 2000 (+ mancozeb)
160 PULSAN (+ mancozeb / oxadixyl)
160 PULSAN PEPITE (+ mancozeb / oxadixyl)
167 SIRDAT S (+ folpet / oxadixyl)
169 SYGAN S (+ folpet)
169 SYPHAL LS (+ copper oxychloride / folpet / mancozeb)

FUNGICIDES

Difenoconazole

WHO : III

triazole

Toxicity to man

Harmful if swallowed.
Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Ecotoxicity

Mode of action

Systemic fungicide with long-lasting preventive and curative action. Absorbed through leaves and stem. Ergosterol biosynthesis inhibitor.

Other information

Non-phytotoxic when used as directed.
Slowly degraded and low mobility in soil.

Products & pages 165 SCORE 250 EC

Epoxiconazole

WHO :

Toxicity to man

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Mode of action

Systemic fungicide with preventive, curative and eradicator action. Inhibits ergosterol biosynthesis.

Other information

Non-phytotoxic when used as directed.
Long residual activity on treated plants.

Products & pages 88 OPUS

Fenarimol

WHO : Table 5

Toxicity to man

Ecotoxicity

Dangerous to fish.

Mode of action

Systemic foliar fungicide with protectant, curative and eradicating properties. Ergosterol bio-synthesis inhibitor.

Other information

Non-phytotoxic when used as directed. If used in excessive amounts, it will cause abnormal leaf development and darker green coloration. Slowly degraded in soil.

Products & pages 164 RUBIGAN 4

FUNGICIDES

Fenpropimorph

WHO : Table 5

Toxicity to man

Harmful by inhalation.
Possible risk of harm to the unborn child.

Ecotoxicity

Mode of action

Systemic fungicide with protective and curative action. Absorbed by the roots and the leaves. Ergosterol biosynthesis inhibitor.

Other information

Non-phytotoxic when used as directed.
Strongly adsorbed to soil.

Products & pages 133 CORBEL

Flusilazole

WHO : III

triazole

Toxicity to man

Harmful if swallowed.
Harmful: danger of serious damage to health by prolonged exposure if swallowed.
Possible risk of harm to the unborn child.

Ecotoxicity

Mode of action

Systemic fungicide with long-lasting preventive and curative action.

Other information

Non-phytotoxic when used as directed.

Products & pages 160 PUNCH B 40 EC

Folpet

WHO : Table 5

Toxicity to man

Irritating to eyes.
May cause sensitisation by skin contact.
Possible risk of irreversible effects.

Ecotoxicity

Dangerous to fish.

Mode of action

Foliar fungicide with preventive action.

Other information

Some fruits may be injured.
Good residual activity.
Strongly adsorbed and rapidly degraded in soil

Products & pages 122 ACYLON SOLUOSE (+ metalaxyl)
124 ANTEOR FLO (+ cymoxanil)
167 SIRDATE S (+ cymoxanil / oxadixyl)
169 SYGAN S (+ cymoxanil)
169 SYPHAL LS (+ copper oxychloride / cymoxanil / mancozeb)

FUNGICIDES

Fosetyl-aluminium

WHO : Table 5

Toxicity to man

Ecotoxicity

Mode of action

Systemic fungicide with preventive and curative action. Absorbed through the leaves and also through the roots. Inhibits germination of spores and blocks the development of mycelium.

Other information

Non-phytotoxic when used as directed.
Rapidly degraded in soil.

Products & pages 123 ALIETTE

Furalaxyl

WHO : III

acylaniline

Toxicity to man

Ecotoxicity

Mode of action

Systemic fungicide, absorbed through the roots, stalk and leaves.

Other information

Non-phytotoxic when used as directed.
Good residual activity.

Products & pages 141 FONGARID 25 WP

Hexaconazole

WHO : Table 5

triazole

Toxicity to man

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Ecotoxicity

Mode of action

Systemic fungicide with preventive and curative action. Ergosterol biosynthesis inhibitor.

Other information

Non-phytotoxic when used as directed.
Hexaconazole is rapidly degraded in soil.

Products & pages 125 ANVIL 5 SC
125 ANVIL MS

FUNGICIDES

Imazalil

WHO : II

Toxicity to man

Harmful if swallowed.
Irritating to eyes.

Ecotoxicity

Dangerous to fish.

Mode of action

Systemic fungicide with protective and curative action. Ergosterol biosynthesis inhibitor.

Other information

Mainly used as post-harvest treatment.

Products & pages

136 DECCOZIL AGRUMES

Iprodione

WHO : Table 5

dicarboximide

Toxicity to man

Possible risk of irreversible effects.

Ecotoxicity

Mode of action

Contact fungicide with preventive and curative action. Inhibits germination of spores and blocks the development of the mycelium.

Other information

Non-phytotoxic when used as directed.
Iprodione is relatively rapidly metabolised to carbon dioxide in soil.

Products & pages

164 ROVRAL

Mancozeb

WHO : Table 5

alkylenebis(dithiocarbamate)

Toxicity to man

Irritating to respiratory system.
May cause sensitisation by skin contact.

Ecotoxicity

Mode of action

Non-systemic fungicide with protective action.

Other information

Non-phytotoxic when used as directed.
Good residual activity.
Rapidly degraded in the environment by hydrolysis, oxidation, photolysis and metabolism.

Products & pages

138 DITHANE M 45 QUINO
141 FULVAX 2000 (+ cymoxanil)
151 MANZATE 200
160 PULSAN (+ cymoxanil / oxadixyl)
160 PULSAN PEPITE (+ cymoxanil / oxadixyl)
162 RIDOMIL MZ 72 WP (+ metalaxyl)
169 SYPHAL LS (copper oxychloride / cymoxanil / folpet)
173 TRIMILTOX FORT (+ copper oxychloride / cupric compounds)

FUNGICIDES

Maneb

WHO : Table 5

alkylenebis(dithiocarbamate)

Toxicity to man

Irritating to respiratory system.
May cause sensitisation by skin contact.

Ecotoxicity

Dangerous to fish.

Mode of action

Non-systemic fungicide with protective action.

Other information

Varieties of cucurbits may be injured.
Rapidly degraded in the environment by hydrolysis, oxidation, photolysis and metabolism.

Products & pages

133 CUPROSAN 311 SD (+ copper oxychloride / zineb)
156 PELTAR FLO (+ thiophanate-methyl)

Metalaxyl

WHO : III

acylalanine

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Mode of action

Systemic fungicide with preventive and curative action. Absorbed through leaves, stem and roots. Inhibits protein synthesis.

Other information

Long residual activity in soil.

Products & pages

122 ACYLON SOLUDOSE (+ folpet)
162 RIDOMIL 5 G
162 RIDOMIL MZ 72 WP (+ mancozeb)

Metiram

WHO : Table 5

alkylenebis(dithiocarbamate)

Toxicity to man

Ecotoxicity

Mode of action

Non-systemic foliar fungicide with protective action.

Other information

Non-phytotoxic when used as directed.
Rapidly degraded in the environment by hydrolysis, oxidation, photolysis and metabolism.

Products & pages

158 POLYRAM DF

FUNGICIDES

Oxadixyl

WHO : III

Toxicity to man

Ecotoxicity

Mode of action

Systemic fungicide with preventive and curative action. Absorbed by the leaves and roots.

Other information

Non-phytotoxic when used as directed.
Often used in combination with other fungicides. Synergistic effect with contact fungicides, mainly mancozeb.
Slowly degraded in soil.

Products & pages

160 PULSAN (+ cymoxanil / mancozeb)
160 PULSAN PEPITE (+ cymoxanil / mancozeb)
167 SIRDATE S (+ cymoxanil / folpet)

Penconazole

WHO : III

triazole

Toxicity to man

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Ecotoxicity

Mode of action

Systemic fungicide with mainly preventive, but also curative action. Absorbed through leaves and stem. Ergosterol biosynthesis inhibitor.

Other information

Non-phytotoxic when used as directed.
Slowly degraded in soil.

Products & pages

171 TOPAS 100 EC

Propiconazole

WHO : III

triazole

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Mode of action

Systemic fungicide with preventive and curative action. Inhibits ergosterol biosynthesis.

Other information

Non-phytotoxic when used as directed.
Slowly degraded in soil.

Products & pages

171 TILT 250 EC

FUNGICIDES

Propineb

WHO : Table 5

alkylenebis(dithiocarbamate)

Toxicity to man

Ecotoxicity

Mode of action

Foliar fungicide with protective action.

Other information

Non-phytotoxic when used as directed.
Long residual activity.
Rapidly degraded in the environment.
Propineb is immobile in soil.

Products & pages 125 ANTRACOL WP 70

Pyrazofos

WHO : II

organophosphate

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Dangerous to fish.

Mode of action

Systemic fungicide with preventive and curative action. Absorbed by the leaves and the shoots.

Other information

Non-phytotoxic when used as directed.

Products & pages 123 AFUGAN CE

Pyrifenox

WHO : III

pyridine

Toxicity to man

Ecotoxicity

Mode of action

Systemic fungicide with protective and curative action. Absorbed by the leaves and roots. Ergosterol biosynthesis inhibitor.

Other information

Non-phytotoxic when used as directed.
Extensive degradation in soil. No leaching.

Products & pages 138 DORADO 200 EC

FUNGICIDES

Tebuconazole

WHO : Table 5

Toxicity to man

Ecotoxicity

Mode of action

Systemic fungicide with protective and curative action. Ergosterol biosynthesis inhibitor.

Other information

Non-phytotoxic when used as directed.
Long residual activity on treated plants.

Products & pages 141 FOLICUR 250 EW

Thiabendazole

WHO : Table 5

benzimidazole

Toxicity to man

Ecotoxicity

Mode of action

Systemic fungicide with protective, curative and eradicating action. Absorbed by the leaves and roots.

Other information

Non-phytotoxic when used as directed.
Used to protect fruits and vegetables from storage diseases.

Products & pages 152 MERTECT 20 S

Thiophanate-methyl

WHO : Table 5

benzimidazole precursor

Toxicity to man

Possible risks of irreversible effects.

Ecotoxicity

Mode of action

Systemic fungicide with protective and curative action. Absorbed by the leaves and roots, with translocation principally acropetally.

Other information

Non-phytotoxic when used as directed.
Thiophanate-methyl is converted to carbendazim in soil and water. Soil persistence is about 3 to 4 weeks.

Products & pages 156 PELT 44 LIQUIDE
156 PELTAR FLO (+ maneb)
156 PELTIS 40
166 SIGMA

FUNGICIDES

Tolclofos-methyl

WHO : Table 5

organophosphate ester

Toxicity to man

Ecotoxicity

Mode of action

Contact fungicide with protective and curative action. Inhibits germination of spores and growth of fungal mycelium.

Other information

Non-phytotoxic when used as directed.
Used as a seed treatment.
Persistent in the soil.

Products & pages 162 RIZOLEX
 163 RIZOLEX 50 WP

Tridemorph

WHO : II

morpholine

Toxicity to man

Harmful in contact with skin and if swallowed.

Ecotoxicity

Dangerous to fish.

Mode of action

Systemic fungicide with protective action. Absorbed by the leaves and roots. Ergosterol biosynthesis inhibitor.

Other information

Non-phytotoxic when used as directed.

Products & pages 131 CALIXIN

Triforine

WHO : Table 5

Toxicity to man

Ecotoxicity

Mode of action

Systemic fungicide with protective and curative action. Absorbed by the leaves and roots. Ergosterol biosynthesis inhibitor.

Other information

Non-phytotoxic when used as directed.
Inherently biodegradable by hydrolysis. Does not accumulate in the environment.

Products & pages 141 FUNGINEX
 165 SAPROL 1

FUNGICIDES

Zineb

WHO : Table 5

alkylenebis(dithiocarbamate)

Toxicity to man

Irritating to respiratory system.
May cause sensitisation by skin contact.

Ecotoxicity

Dangerous to fish and fauna.

Mode of action

Foliar fungicide with protective action.

Other information

Zinc-sensitive plants, such as tobacco and cucurbits are injured.
Rapidly degraded in the environment by hydrolysis, oxidation, photolysis and metabolism.

Products & pages 133 CUPROSAN 311 SD (+ copper oxychloride / maneb)

Herbicides

HERBICIDES

2,4-D

WHO : II

aryloxyalkanoic acid

Toxicity to man

Harmful by inhalation, in contact with skin and if swallowed.

Ecotoxicity

Dangerous to fish (esters).

Mode of action

Systemic herbicide. Salts are readily absorbed by the roots, whilst esters are readily absorbed by the leaves. Acts as a growth inhibitor.

Other information

Post-emergence control of broad-leaved weeds on crops and non-crop areas.
2,4-D is rapidly degraded by soil micro-organisms.

Products & pages	122	ACTRIL DS (+ ioxynil)
	131	CERTROL DS (+ ioxynil)
	135	DEBROUSSAILLANT 2D (+ dichlorprop)
	158	POLYMON 60 (+ mecoprop)
	159	PRINTAZOL 75 (+ MCPA)
	159	PRINTAZOL N (+ MCPA / picloram)
	171	TORDON 101 (+ picloram)
	174	WEEDONE LV 6

Ametryn

WHO : III

1,3,5-triazine

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Dangerous to fish.

Mode of action

Systemic herbicide absorbed by the leaves and roots. Photosynthesis inhibitor.

Other information

Pre- and post-emergence control of annual grass and broad-leaved weeds. Also used as a potato haulm desiccant.
Decomposed within months by soil micro-organisms.

Products & pages	144	GESAPAX 500 FW
	144	GESAPAX 80 WP
	144	GESAPAX COMBI 500 FW (+ atrazine)
	145	GESATOPE Z (+ simazine)

HERBICIDES

Amitrole

WHO : Table 5

triazole

Toxicity to man

Harmful: danger of serious damage to health by prolonged exposure if swallowed.
Possible risk of irreversible effects.

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Mode of action

Non-selective systemic herbicide. Absorbed by the leaves and roots. Inhibits chlorophyll formation. Addition of ammonium thiocyanate increases the herbicidal potential of amitrole.

Other information

Total control of broad-leaved weeds and grasses. Weed control on crops and non-crop areas.
Short persistence in soil.

Products & pages 147 HERBACYL DT LIQUIDE (+ bromacil / diuron)
150 KYTROL GT (+ ammonium thiocyanate / bromacil / diuron)

Asulam

WHO : Table 5

Toxicity to man

Ecotoxicity

Mode of action

Systemic herbicide absorbed by the leaves and roots. Interferes with the process of cell division.

Other information

Control of annual and perennial grasses and broad-leaved weeds on crops and non-crop areas.
Short persistence in soil.

Products & pages 127 ASULOX

Atrazine

WHO : Table 5

1,3,5-triazine

Toxicity to man

Harmful by inhalation and if swallowed.
Irritating to eyes.
May cause sensitisation by skin contact.
Possible risk of irreversible effects.

Ecotoxicity

Mode of action

Systemic herbicide absorbed principally by the roots. Photosynthesis inhibitor.

Other information

Pre- and post-emergence control of annual grasses and broad-leaved weeds.
Decomposed within months by soil micro-organisms.

Products & pages 144 GESAPAX COMBI 500 FW (+ ametryn)
145 GESAPRIM 500 FW
145 GESAPRIM COMBI 80 WG (+ terbutryn)

HERBICIDES

Bromacil

WHO : Table 5

uracil

Toxicity to man

Ecotoxicity

Mode of action

Herbicide mainly absorbed by the roots. Acts as a photosynthesis inhibitor.

Other information

Pre- and post-emergence control of annual and perennial grasses and weeds in citrus and pineapple plantations. Also used for total weed control on non-crop areas. Long residual activity in soil.

Products & pages

- 147 HERBACYL DT LIQUIDE (+ amitrole / diuron)
147 HYVAR X
150 KYTROL GT (+ amitrole / ammonium thiocyanate / diuron)

Carbetamide

WHO : Table 5

carbamate

Toxicity to man

Ecotoxicity

Mode of action

Selective herbicide absorbed by the roots. Interferes with the process of cell division.

Other information

Control of annual grasses and broad-leaved weeds. Moderately persistent in soil.

Products & pages

- 163 RONSTAR TX (+ oxadiazon)

Chlorthal-dimethyl

WHO : Table 5

benzoic acid

Toxicity to man

Ecotoxicity

Mode of action

Selective herbicide that kills germinating weeds.

Other information

Pre-emergence control of annual grasses and broad-leaved weeds. Residual activity in soil is about 3 months.

Products & pages

- 134 DACTHAL W-75
137 DELOSIN PM

HERBICIDES

Dichlorprop

WHO : III

aryloxyalkanoic acid

Toxicity to man

Harmful in contact with skin and if swallowed.
Irritating to skin.
Risk of serious damage to eyes.

Ecotoxicity

Mode of action

Systemic herbicide. Absorbed by the leaves with translocation to the roots. Acts as a growth regulator.

Other information

Post-emergence control of broad-leaved weeds on crops and non-crop areas.
Dichlorprop is rapidly degraded by soil micro-organisms.

Products & pages 135 DEBROUSSAILLANT 2D (+ 2,4-D)

Diquat

WHO : II

bipyridilium

Toxicity to man

Toxic in contact with skin and if swallowed.
Irritating to eyes, respiratory system and skin.

Ecotoxicity

Mode of action

Non-selective contact herbicide absorbed by the foliage with some translocation in the xylem. During photosynthesis, superoxide is generated, which damages cell membranes and cytoplasm.

Other information

Control of annual broad-leaved weeds on crops and non-crop areas. Pre-harvest desiccation of field crops, destruction of potato haulms.
Diquat is rapidly and completely inactivated on contact with soil.

Products & pages 161 REGLONE

Diuron

WHO : Table 5

urea

Toxicity to man

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Ecotoxicity

Mode of action

Systemic herbicide mainly absorbed by the roots. Photosynthesis inhibitor.

Other information

Pre- and post-emergence control of germinating grass and broad-leaved weeds. Also used for total weed control on non-crop areas.
Long residual activity in soil

Products & pages 146 GRAMOCIL (+ paraquat)
147 HERBACYL DT LIQUIDE (+ amitrole / bromacil)
148 KARMEX
150 KYTROL GT (+ amitrole / ammonium thiocyanate / bromacil)

HERBICIDES

Fluazifop-P-butyl

WHO : Table 5

2-(4-aryloxyphenoxy)propionic acid

Toxicity to man

Ecotoxicity

Mode of action

Selective systemic herbicide. Absorbed by the leaves and roots. Fatty acid synthesis inhibitor.

Other information

Control of grasses on broad-leaved crops. Rapidly degraded in soil.

Products & pages 142 FUSILADE
 142 FUSILADE 2

Glufosinate-ammonium

WHO : III

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Mode of action

Non-selective contact herbicide. Photosynthesis inhibitor.

Other information

Control of a wide range of annual and perennial broad-leaved weeds and grasses. Moderately persistent in soil.

Products & pages 128 BASTA F1
 128 BASTA LS

Glyphosate

WHO : Table 5

Toxicity to man

Ecotoxicity

Mode of action

Non-selective systemic herbicide absorbed by the foliage. Glyphosate interferes with the formation of amino acids.

Other information

Control of annual and perennial broad-leaved weeds and grasses. Inactivated on contact with soil.

Products & pages 164 ROUNDUP

HERBICIDES

Glyphosate-trimesium (*sulfosate*)

WHO : Table 5

Toxicity to man

Ecotoxicity

Mode of action

Non-selective systemic herbicide absorbed by the foliage. Acts on various enzyme systems, thus interfering with the formation of amino acids.

Other information

Control of annual and perennial broad-leaved weeds.
Inactivated on contact with soil.

Products & pages 155 OURAGAN
 172 TOUCHDOWN

Hexazinone

WHO : III

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Mode of action

Contact herbicide with secondary systemic activity. Absorbed by the leaves and the roots. Photosynthesis inhibitor.

Other information

Pre- and post-emergence control of broad-leaved weeds and most annual and perennial grasses. Weed control on crops and non-crop areas.
Decomposed within months by soil micro-organisms.

Products & pages 174 VELPAR S

Imazapyr

WHO : Table 5

imidazolinone

Toxicity to man

Irritating to eyes.

Ecotoxicity

Mode of action

Non-selective systemic herbicide. Absorbed by the leaves and the roots. Blocks synthesis of aminoacids, thus causing interference with cell growth.

Other information

Pre- and post-emergence control of broad-leaved weeds and annual and perennial grasses. Weed control on non-crop areas.
Residual activity in the soil ranges from 3 to 6 months in tropical climates.

Products & pages 126 ARSENAL 50

HERBICIDES

loxynil

WHO : II

hydroxybenzonitrile

Toxicity to man

Toxic if swallowed.
Possible risk of harm to the unborn child.
Harmful in contact with skin.

Ecotoxicity

Dangerous to fish.

Mode of action

Contact herbicide with some systemic activity.
Absorbed by the foliage. It is only effective in
presence of light. Photosynthesis inhibitor.

Other information

Post-emergence control of annual broad-
leaved weeds.
Rapidly degraded in less toxic substances in
soil.

Products & pages 122 ACTRIL DS (+ 2,4-D)
 131 CERTROL DS (+ 2,4-D)

Isoxaben

WHO : III

amide

Toxicity to man

Ecotoxicity

Mode of action

Systemic herbicide absorbed by the roots.
Inhibits protein synthesis.

Other information

Pre-emergence control of broad-leaved
weeds.
Moderate residual activity in soil.

Products & pages 175 WINCH (+ oryzalin)
 168 SNAPSHOT 2.5 G (+ trifluralin)

Linuron

WHO : Table 5

urea

Toxicity to man

Possible risk of irreversible effects.

Ecotoxicity

Mode of action

Systemic herbicide mainly absorbed by the
roots. Photosynthesis inhibitor.

Other information

Pre- and post-emergence control of annual
grass and broad-leaved weeds.
Long residual activity in soil.

Products & pages 122 AFALON SPECIAL PM (+ monolinuron)
 131 CELATOX LEGUMES 75 PM

HERBICIDES

MCPA

WHO : III

aryloxyalkanoic acid

Toxicity to man

Harmful if swallowed.
Irritating to skin.
Risk of serious damage to eyes.

Ecotoxicity

Dangerous to fish (esters).

Mode of action

Systemic herbicide absorbed by the leaves and roots. Acts as a growth inhibitor.

Other information

Post-emergence control of broad-leaved weeds on crops and non-crop areas.
Long residual activity in soil

Products & pages 159 PRINTAZOL 75 (+ 2,4-D)
 159 PRINTAZOL N (+ 2,4-D / picloram)

Mecoprop

WHO : III

aryloxyalkanoic acid

Toxicity to man

Harmful if swallowed.
Irritating to skin.
Risk of serious damage to eyes.

Ecotoxicity

Mode of action

Systemic herbicide absorbed by the leaves.
Acts as a growth inhibitor.

Other information

Post-emergence control of broad-leaved weeds.
Moderate residual activity in soil.

Products & pages 158 POLYMONE 60 (+ 2,4-D)

Metoxuron

WHO : Table 5

urea

Toxicity to man

Harmful by inhalation, in contact with skin and if swallowed.

Ecotoxicity

Mode of action

Systemic herbicide absorbed by the leaves and the roots. Photosynthesis inhibitor.

Other information

Pre- and post-emergence control of some grasses and most annual broad-leaved weeds.

Products & pages 139 DOSANEX C

HERBICIDES

Metsulfuron-methyl

WHO : III

sulfonylurea

Toxicity to man

Irritating to eyes.

Ecotoxicity

Mode of action

Systemic herbicide absorbed by the leaves and roots. Acts as a growth inhibitor.

Other information

Pre- and post-emergence control of broad-leaved weeds and some grasses.
Moderate residual activity in soil.

Products & pages 123 ALLIE

Monolinuron

WHO : Table 5

urea

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Mode of action

Systemic herbicide absorbed by the roots and leaves. Photosynthesis inhibitor.

Other information

Pre- and post-emergence control of annual grass and broad-leaved weeds.
Moderate residual activity in soil.

Products & pages 122 AFALON SPECIAL PM (+ linuron)

Oryzalin

WHO : Table 5

Toxicity to man

Selective herbicide inhibiting seed germination.

Ecotoxicity

Pre-emergence control of many annual grasses and broad-leaved weeds on crops.
Long residual activity.

Mode of action

Other information

Products & pages 168 SURFLAN
175 WINCH (+ isoxaben)

HERBICIDES

Oxadiazon

WHO : Table 5

Toxicity to man

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Mode of action

Contact herbicide.

Other information

Pre- and post-emergence control of annual grasses and broad-leaved weeds. Strongly adsorbed in soil. Long residual activity.

Products & pages 163 RONSTAR
 163 RONSTAR TX (+ carbetamide)

Paraquat

WHO : II

bipyridilium

Toxicity to man

Toxic in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

Ecotoxicity

Mode of action

Non-selective herbicide with fast-acting contact action, absorbed by the leaves. During photosynthesis, superoxide is generated, which damages cell membranes and cytoplasm.

Other information

Broad-spectrum herbicide for control of broad-leaved weeds and grasses. Paraquat is rapidly adsorbed and de-activated by soil.

Products & pages 146 GRAMOCIL (+ diuron)
 146 GRAMOXONE
 146 GRAMOXONE SUPER
 161 R-BIX

Pendimethalin

WHO : III

2,6-dinitroaniline

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Mode of action

Absorbed by the roots and the leaves. Inhibits Acts as a growth inhibitor.

Other information

Pre-emergence control of most annual grasses and broad-leaved weeds. Long residual activity in soil.

Products & pages 159 PROWL

HERBICIDES

Picloram

WHO : Table 5

pyridinecarboxylic acid

Toxicity to man

Ecotoxicity

Dangerous to fish (esters).

Mode of action

Systemic herbicide rapidly absorbed by the roots and leaves. Acts as a growth inhibitor.

Other information

Post-emergence control of broad-leaved weeds on crops and non-crop areas.
Slowly degraded by soil micro-organisms.

Products & pages
159 PRINTAZOL N (+ 2,4-D / MCPA)
171 TORDON 101 (+ 2,4-D)
172 TORDON 22 K

Prometryn

WHO : III

1,3,5-triazine

Toxicity to man

Ecotoxicity

Mode of action

Systemic herbicide absorbed by the leaves and roots. Photosynthesis inhibitor.

Other information

Pre- and post-emergence control of annual grasses and broad-leaved weeds.
Decomposed within months by soil micro-organisms.

Products & pages 144 GESAGARD 50 WP

Propyzamide

WHO : Table 5

amide

Toxicity to man

Possible risk of irreversible effects.

Ecotoxicity

Mode of action

Systemic herbicide absorbed by the roots.
Photosynthesis inhibitor.

Other information

Pre-emergence control of annual and perennial grasses.
Propyzamide is immobile in soil with a residual activity lasting up to 6 months.

Products & pages 148 KERB FLO

HERBICIDES

Pyridate

WHO : III

Toxicity to man

May cause sensitisation by skin contact.

Ecotoxicity

Mode of action

Contact herbicide, mainly absorbed by the leaves. Photosynthesis inhibitor.

Other information

Post-emergence control of annual broad-leaved weeds.
Poor persistence in soil.

Products & pages 151 LENTAGRAN

Simazine

WHO : Table 5

1,3,5-triazine

Toxicity to man

Possible risk of irreversible effects.

Ecotoxicity

Mode of action

Systemic herbicide, absorbed by the roots. Photosynthesis inhibitor.

Other information

Control of germinating annual grasses and broad-leaved weeds.
Decomposed within months by soil micro-organisms.

Products & pages 145 GESATOP 500 FW
145 GESATOP Z (+ ametryn)

Terbutryn

WHO : III

1,3,5-triazine

Toxicity to man

Ecotoxicity

Dangerous to fish.

Mode of action

Systemic herbicide absorbed by the roots and leaves. Photosynthesis inhibitor.

Other information

Pre-emergence control of annual grasses and broad-leaved weeds.
Decomposed within months by soil micro-organisms.

Products & pages 145 GESAPRIM COMBI 80 WG (+ atrazine)

HERBICIDES

Triclopyr

WHO : III

aryloxyalkanoic acid

Toxicity to man

Harmful if swallowed.
Irritating to eyes.

Ecotoxicity

Dangerous to fish (esters).

Mode of action

Systemic herbicide absorbed by the leaves and roots. Acts as a growth inhibitor.

Other information

Control of brushwood and perennial broad-leaved weeds.
Rapidly degraded by soil microorganisms.

Products & pages 143 GARLON 4

Trifluralin

WHO : III

2,6-dinitroaniline

Toxicity to man

Irritating to eyes.
May cause sensitisation by skin contact.

Ecotoxicity

Dangerous to fish.

Mode of action

Soil herbicide. Inhibits seed germination.

Other information

Pre-emergence control of annual grasses and broad-leaved weeds.
Long residual activity in soil. Degraded by light at soil surface.

Products & pages 168 SNAPSHOT 2.5 G (+ isoxaben)

Miscellaneous

Brodifacoum

WHO : Ia

coumarin

Toxicity to man

Very toxic in contact with skin and if swallowed.
Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.

Ecotoxicity

Dangerous to fish and fauna.

Mode of action

Rodenticide with stomach action. It inhibits the vitamin K1 cycle and causes capillary lesions.

Other information

Products & pages
149 KLERAT PELLETS
149 KLERAT WAX BLOCKS
169 TALON CUT WHEAT BAIT

Chlorophacinone

WHO : Ia

Toxicity to man

Very toxic in contact with skin and if swallowed.
Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.

Ecotoxicity

Dangerous to fish and fauna.

Mode of action

Rodenticide with stomach action. It inhibits the vitamin K cycle and causes internal bleeding.

Other information

Products & pages
162 RIMITOX

Dazomet

WHO : III

methyl isothiocyanate precursor

Toxicity to man

Harmful if swallowed.
Irritating to eyes.

Ecotoxicity

Dangerous to fish.

Mode of action

Soil sterilant, effective against pests, diseases and weeds. Soil fumigant which acts by decomposition to methyl isothiocyanate.

Other information

Highly phytotoxic to all green plants. Treated soils should not be planted until shown to be free of dazomet and its degradation products.

Products & pages
127 BASAMID GRANULAR

MISCELLANEOUS

Metaldehyde

WHO : III

Toxicity to man

Harmful if swallowed.

Ecotoxicity

Dangerous to fauna.

Mode of action

Molluscicide with contact and stomach action.

Other information

Non-phytotoxic when used as directed.
Rapidly decomposed by soil micro-organisms
to carbon dioxide and water.

Products & pages 122 AFFUT
158 PHYTOREX

Methiocarb

WHO : II

Toxicity to man

Toxic if swallowed.

Ecotoxicity

Dangerous to fish and fauna.

Mode of action

Molluscicide with contact and stomach action.
Cholinesterase inhibitor.

Other information

Non-phytotoxic when used as directed.
Rapidly degraded in soil.

Products & pages 152 MESUROL RF

Thiodicarb

WHO : II

oxime carbamate

Toxicity to man

Toxic if swallowed.
Irritating to eyes.

Ecotoxicity

Dangerous to fish and bees.

Mode of action

Molluscicide with stomach action.
Cholinesterase inhibitor.

Other information

Control of slugs and snails.

Products & pages 167 SKIPPER

PART IV

COMMERCIAL PRODUCTS

COMMERCIAL PRODUCTS

Actellic 50 EC

Emulsifiable concentrate (EC)



Active ingredients	g/l
pirimiphos-methyl	500

Company / undertaking
Zeneca

Toxicity to man
Harmful if swallowed Irritating to eyes and skin

Countries where available
Dominica Grenada St Kitts St Lucia St Vincent

Actellic dust 2%

Dispersible powder (DP)

Active ingredients	g/kg
pirimiphos-methyl	20

Company / undertaking
Zeneca

Toxicity to man

Countries where available
Grenada

Actellic liquide

Emulsifiable concentrate (EC)



Active ingredients	g/l
pirimiphos-methyl	250

Company / undertaking
Zeneca

Toxicity to man
Irritating to eyes and skin

Countries where available
Guadeloupe Martinique

Actellic SG 20

Smoke generator (FU)



Active ingredients	g/kg
pirimiphos-methyl	225

Company / undertaking
Zeneca

Toxicity to man
Irritating to eyes and respiratory system

Countries where available
Grenada

COMMERCIAL PRODUCTS

Actril DS

Emulsifiable concentrate (EC)



Active ingredients	g/l
2,4-D	600
ioxynil	100

Company / undertaking
Rhône-Poulenc

Toxicity to man
Harmful if swallowed

Countries where available
St Kitts

Acylon soludose

Wettable Powder (WP) in water soluble packets



Active ingredients	g/kg
folpet	510
metalaxyl	90

Company / undertaking
Novartis

Toxicity to man
Possible risks of irreversible effects
Risk of serious damage to eyes
May cause sensitisation by skin contact

Countries where available
Guadeloupe Martinique

Afalon special PM

Wettable powder (WP)



Active ingredients	g/kg
linuron	238
monolinuron	238

Company / undertaking
AgrEvo

Toxicity to man
Harmful if swallowed
Possible risks of irreversible effects

Countries where available
Guadeloupe Martinique

Affut

Granular bait (GB)



Active ingredients	g/kg
metaldehyde	50

Company / undertaking
Novartis

Toxicity to man

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Afugan CE

Emulsifiable concentrate (EC)



Active ingredients	g/l
pyrazofos	294

Company / undertaking
AgrEvo

Toxicity to man
Harmful by inhalation, in contact with skin and if swallowed
Irritating to skin
Risk of serious damage to eyes

Countries where available
Guadeloupe Martinique

Agree 50 WP

Wettable powder (WP)

Active ingredients	g/kg
<i>Bacillus thuringiensis</i>	500

Company / undertaking
Novartis

Toxicity to man

Countries where available
St Lucia

Aliette

Wettable powder (WP)

Active ingredients	g/kg
fosetyl-aluminium	800

Company / undertaking
Rhône-Poulenc

Toxicity to man

Countries where available
Dominica Grenada St Lucia
St Vincent

Allie

Water dispersible granules (WG)

Active ingredients	g/kg
metsulfuron-methyl	200

Company / undertaking
Du Pont

Toxicity to man

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Ambush 10 EC

Emulsifiable concentrate (EC)



Active ingredients	g/l
permethrin	100

Company / undertaking
Zeneca

Toxicity to man
Irritating to eyes and skin

Countries where available
Grenada

Ambush 50 EC

Emulsifiable concentrate (EC)



Active ingredients	g/l
permethrin	500

Company / undertaking
Zeneca

Toxicity to man
Harmful if swallowed
Irritating to eyes and skin

Countries where available
Grenada St Kitts St Vincent

Ambush C

Emulsifiable concentrate (EC)



Active ingredients	g/l
cypermethrin	100

Company / undertaking
Zeneca

Toxicity to man
Irritating to eyes and skin
May cause sensitisation by skin contact

Countries where available
Grenada

Anteor flo

Suspension concentrate (SC)



Active ingredients	g/l
cymoxanil	40
folpet	333.3

Company / undertaking
AgrEvo

Toxicity to man
Possible risks of irreversible effects
Irritating to eyes
May cause sensitisation by skin contact

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Anthio fort

Emulsifiable concentrate (EC)



Active ingredients	g/l
formothion	338

Company / undertaking
Novartis

Toxicity to man
Harmful if swallowed Irritating to eyes

Countries where available
Guadeloupe Martinique

Antracol WP 70

Wettable powder (WP)

Active ingredients	g/kg
propineb	700

Company / undertaking
Bayer

Toxicity to man

Countries where available
Grenada Guadeloupe Martinique

Anvil 5 SC

Suspension concentrate (SC)

Active ingredients	g/l
hexaconazole	50

Company / undertaking
Zeneca

Toxicity to man

Countries where available
Dominica St Lucia St Vincent

Anvil MS

Oil miscible flowable concentrate (OF)



Active ingredients	g/l
hexaconazole	250

Company / undertaking
Zeneca

Toxicity to man
Causes burns Harmful if swallowed

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

<h2 style="margin: 0;">Applaud FL</h2> <p style="margin: 0;">Suspension concentrate (SC)</p>		
Active ingredients buprofezin	g/l 440	Company / undertaking Novartis
Toxicity to man	Countries where available Guadeloupe Martinique	

<h2 style="margin: 0;">Appolo 50 SC</h2> <p style="margin: 0;">Suspension concentrate (EC)</p>		
Active ingredients clofentezine	g/l 500	Company / undertaking AgrEvo
Toxicity to man	Countries where available Guadeloupe Martinique	

<h2 style="margin: 0;">Arsenal 50</h2> <p style="margin: 0;">Soluble concentrate (SL)</p>		
Active ingredients imazapyr	g/l 50	Company / undertaking Cyanamid
Toxicity to man Irritating to eyes	Countries where available Guadeloupe Martinique	

<h2 style="margin: 0;">Artaban</h2> <p style="margin: 0;">Emulsifiable concentrate (EC)</p>		
Active ingredients benzoximate	g/l 200	Company / undertaking AgrEvo
Toxicity to man Harmful by inhalation	Countries where available Guadeloupe Martinique	

COMMERCIAL PRODUCTS

Asulox

Soluble concentrate (SL)



Active ingredients	g/l
asulam	400

Company / undertaking
Rhône-Poulenc

Toxicity to man

Countries where available
Guadeloupe Martinique St Kitts

Aztec

Emulsion, oil in water (EW)



Active ingredients	g/l
triazamate	140

Company / undertaking
Cyanamid

Toxicity to man
Harmful by inhalation and if swallowed
Irritating to eyes
May cause sensitisation by skin contact

Countries where available
Guadeloupe Martinique

Bactospeine WP

Wettable powder (WP)



Active ingredients	g/kg
<i>Bacillus thuringiensis</i>	32

Company / undertaking
Abbott

Toxicity to man

Countries where available
Guadeloupe Martinique St Lucia

Basamid granular

Microgranules (MG)



Active ingredients	g/kg
dazomet	970

Company / undertaking
BASF

Toxicity to man
Harmful if swallowed

Countries where available
Grenada Guadeloupe Martinique

COMMERCIAL PRODUCTS

Basta F1

Soluble concentrate (SL)



Active ingredients	g/l
glufosinate-ammonium	150

Company / undertaking
AgrEvo

Toxicity to man
Harmful by inhalation, in contact with skin and if swallowed
Risk of serious damage to eyes

Countries where available
Guadeloupe Martinique

Basta LS

Soluble concentrate (SL)



Active ingredients	g/l
glufosinate-ammonium	200

Company / undertaking
AgrEvo

Toxicity to man
Harmful by inhalation, in contact with skin and if swallowed
Irritating to eyes

Countries where available
Guadeloupe Martinique

Basudin 10 G

Granules (GR)



Active ingredients	g/kg
diazinon	100

Company / undertaking
Novartis

Toxicity to man

Countries where available
Guadeloupe Martinique St Kitts

Basudin 40 WP

Wettable powder (WP)



Active ingredients	g/kg
diazinon	400

Company / undertaking
Novartis

Toxicity to man

Countries where available
Dominica Grenada St Vincent

COMMERCIAL PRODUCTS

Basudin 5 G

Granules (GR)

Active ingredients	g/kg	Company / undertaking
diazinon	50	Novartis
Toxicity to man		Countries where available
		Dominica

Basudin 600 EC

Emulsifiable concentrate (EC)



Active ingredients	g/l	Company / undertaking
diazinon	600	Novartis
Toxicity to man		Countries where available
Harmful if swallowed Irritating to skin May cause sensitisation by skin contact		Grenada St Kitts St Lucia St Vincent

Basudine 20 L

Emulsifiable concentrate (EC)



Active ingredients	g/l	Company / undertaking
diazinon	185	Novartis
Toxicity to man		Countries where available
Harmful if swallowed Irritating to skin		Guadeloupe Martinique

Baycor EC 300

Emulsifiable concentrate (EC)



Active ingredients	g/l	Company / undertaking
bitertanol	300	Bayer
Toxicity to man		Countries where available
Irritating to eyes and skin		Guadeloupe Martinique

COMMERCIAL PRODUCTS

Baythroid EC 050

Emulsifiable concentrate (EC)



Active ingredients	g/l
cyfluthrin	50

Company / undertaking
Bayer

Toxicity to man
Harmful by inhalation and in contact with skin Irritating to eyes and skin

Countries where available
Guadeloupe Martinique

Benlate 50 WP

Wettable powder (WP)



Active ingredients	g/kg
benomyl	500

Company / undertaking
Du Pont

Toxicity to man
Harmful if swallowed Possible risks of irreversible effects

Countries where available
Dominica Grenada Guadeloupe Martinique St Kitts St Vincent

Benlate OD

Wettable powder (WP)



Active ingredients	g/kg
benomyl	500

Company / undertaking
Du Pont

Toxicity to man
Possible risks of irreversible effects

Countries where available
Guadeloupe Martinique St Lucia

Bullit

Emulsifiable concentrate (EC)



Active ingredients	g/l
pirimiphos-ethyl	250

Company / undertaking
Zeneca

Toxicity to man
Harmful if swallowed Irritating to eyes

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Calixin

Emulsifiable concentrate (EC)



Active ingredients	g/l
tridemorph	750

Company / undertaking
BASF

Toxicity to man
Harmful if swallowed
Irritating to skin
Risk of serious damage to eyes

Countries where available
Dominica Grenada St Lucia
St Vincent

Carbax 360

Emulsifiable concentrate (EC)



Active ingredients	g/l
dicofof	360

Company / undertaking
Rhône-Poulenc

Toxicity to man
Harmful if swallowed
Risk of serious damage to eyes
May cause sensitisation y skin contact

Countries where available
Guadeloupe Martinique

Celatox legumes 75 PM

Wettable powder (WP)

Active ingredients	g/kg
linuron	75

Company / undertaking
Rhône-Poulenc

Toxicity to man

Countries where available
Guadeloupe Martinique

Certrol DS

Emulsifiable concentrate (EC)



Active ingredients	g/l
2,4-D	600
ioxynil	100

Company / undertaking
CFPI

Toxicity to man
Harmful in contact with skin and if swallowed
May cause harm to the unborn child

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Cesar

Wettable powder (WP)



Active ingredients

g/kg

hexythiazox

100

Company / undertaking

AgrEvo

Toxicity to man

Countries where available

Guadeloupe Martinique

Commodore 10 WP

Wettable powder (WP)



Active ingredients

g/kg

lambda-cyhalothrin

100

Company / undertaking

Zeneca

Toxicity to man

Irritating to eyes

Countries where available

Grenada

Confidor SC 350

Suspension concentrate (SC)



Active ingredients

g/l

imidacloprid

350

Company / undertaking

Bayer

Toxicity to man

Harmful if swallowed

May cause sensitisation by skin contact

Countries where available

Guadeloupe Martinique St Vincent

Coprarex

Wettable powder (WP)



Active ingredients

g/kg

copper oxychloride

500

Company / undertaking

Du Pont

Toxicity to man

Countries where available

Guadeloupe Martinique

COMMERCIAL PRODUCTS

Corbel

Emulsifiable concentrate (EC)



Active ingredients	g/l
fenpropimorph	750

Company / undertaking
BASF

Toxicity to man
Harmful by inhalation
Irritating to skin

Countries where available
Guadeloupe Martinique

Counter 10 G

Microgranules (MG)



Active ingredients	g/kg
terbufos	100

Company / undertaking
Cyanamid

Toxicity to man
Very toxic in contact with skin and if swallowed

Countries where available
Guadeloupe Martinique

Cryptonol liquide

Soluble concentrate (SL)



Active ingredients	g/l
8-hydroxyquinoline sulfate	140

Company / undertaking
Novartis

Toxicity to man

Countries where available
Guadeloupe Martinique

Cuprosan 311 SD

Wettable powder (WP)



Active ingredients	g/kg
copper oxychloride	300
maneb	100
zineb	100

Company / undertaking
Rhône-Poulenc

Toxicity to man
Irritating to respiratory system
Risk of serious damage to eyes
May cause sensitisation by skin contact

Countries where available
Dominica Guadeloupe Martinique
St Kitts St Lucia St Vincent

COMMERCIAL PRODUCTS

Cymerator 10 fog

Emulsifiable concentrate (EC)



Active ingredients	g/l
cypermethrin	100

Company / undertaking
Zeneca

Toxicity to man
Irritating to eyes and skin May cause sensitisation by skin contact

Countries where available
Dominica Grenada

Daconil 2787 W 75

Wettable powder (WP)



Active ingredients	g/kg
chlorothalonil	750

Company / undertaking
ISK Biosciences

Toxicity to man
Harmful by inhalation Risk of serious damage to eyes Possible risks of irreversible effects May cause sensitisation by skin contact

Countries where available
Dominica Grenada Guadeloupe Martinique St Lucia St Vincent

Daconil 500

Suspension concentrate (SC)



Active ingredients	g/l
chlorothalonil	500

Company / undertaking
ISK Biosciences

Toxicity to man
Possible risks of irreversible effects

Countries where available
St Lucia St Vincent

Dacthal W-75

Wettable powder (WP)



Active ingredients	g/kg
chlorthal-dimethyl	750

Company / undertaking
ISK Biosciences

Toxicity to man

Countries where available
Guadeloupe Martinique St Kitts St Lucia St Vincent

COMMERCIAL PRODUCTS

Danitol 10 EC

Emulsifiable concentrate (EC)



Active ingredients	g/l
fenpropathrin	100

Company / undertaking
Sumitomo

Toxicity to man
Toxic by inhalation, in contact with skin and if swallowed

Countries where available
Dominica Grenada St Lucia

Dart

Suspension concentrate (SC)



Active ingredients	g/l
teflubenzuron	150

Company / undertaking
Rhône-Poulenc

Toxicity to man

Countries where available
Guadeloupe Martinique

D-D 92

Liquid to be applied undiluted (AL)



Active ingredients	g/l
1,3-dichloropropene	1110

Company / undertaking
Cyanamid

Toxicity to man
Toxic if swallowed Harmful by inhalation and in contact with skin Irritating to eyes, respiratory system and skin May cause sensitisation by skin contact

Countries where available
Guadeloupe Martinique

Debroussaillant 2D

Emulsifiable concentrate (EC)



Active ingredients	g/l
2,4-D	240
dichloroprop	240

Company / undertaking
CFPI

Toxicity to man
Harmful if swallowed

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Deccozil agrumes

Emulsifiable concentrate (EC)



Active ingredients	g/l
imazalil	200

Company / undertaking
Elf Atochem

Toxicity to man

Countries where available
Guadeloupe Martinique

Decis B

Emulsifiable concentrate (EC)



Active ingredients	g/l
deltamethrin	25
heptenophos	400

Company / undertaking
AgrEvo

Toxicity to man
Toxic by inhalation, in contact with skin and if swallowed Irritating to eyes and skin

Countries where available
Guadeloupe Martinique

Decis CE

Emulsifiable concentrate (EC)



Active ingredients	g/l
deltamethrin	25

Company / undertaking
AgrEvo

Toxicity to man
Harmful if swallowed Risk of severe damage to eyes

Countries where available
Dominica Grenada Guadeloupe Martinique St Kitts St Lucia St Vincent

Decis flo

Suspension concentrate (SC)



Active ingredients	g/l
deltamethrin	25

Company / undertaking
AgrEvo

Toxicity to man

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Delosin PM

Wettable powder (WP)



Active ingredients	g/kg
chlorthal-dimethyl	750

Company / undertaking
Rhône-Poulenc

Toxicity to man

Countries where available
Guadeloupe Martinique

Demon 40 WP

Wettable powder (WP)



Active ingredients	g/kg
cypermethrin	400

Company / undertaking
Zeneca

Toxicity to man
Irritating to eyes

Countries where available
Dominica St Lucia

Demon TC

Emulsifiable concentrate (EC)



Active ingredients	g/l
cypermethrin	250

Company / undertaking
Zeneca

Toxicity to man
Harmful if swallowed Risk of serious damage to eyes Irritating to skin

Countries where available
St Lucia

Dicarzol 200

Water soluble powder (SP)



Active ingredients	g/kg
formetanate	200

Company / undertaking
Agrevo

Toxicity to man
Harmful if swallowed

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Dipel WP

Wettable powder (WP)



Active ingredients	g/kg
<i>Bacillus thuringiensis</i>	32

Company / undertaking
Abbott

Toxicity to man
Irritating to eyes

Countries where available
Dominica Guadeloupe Martinique
St Kitts St Lucia St Vincent

Dithane M 45

Wettable powder (WP)



Active ingredients	g/kg
mancozeb	800

Company / undertaking
Novartis

Toxicity to man
Irritating to respiratory system
May cause sensitisation by skin contact

Countries where available
Guadeloupe Martinique

Dorado 200 EC

Emulsifiable concentrate (EC)



Active ingredients	g/l
pyrifenox	200

Company / undertaking
Novartis

Toxicity to man
Irritating to eyes and skin

Countries where available
Guadeloupe Martinique

Dorlone 2000

Liquid to be applied undiluted (AL)



Active ingredients	g/l
1,3-dichloropropene	1179

Company / undertaking
DowElanco

Toxicity to man
Toxic if swallowed
Harmful by inhalation and in contact with skin
Irritating to eyes, respiratory system and skin
May cause sensitisation by skin contact

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Dosanex C

Wettable powder (WP)

Active ingredients	g/kg
metoxuron	800

Company / undertaking
Novartis

Toxicity to man

Countries where available
Guadeloupe Martinique St Vincent

Drifene AP

Emulsifiable concentrate (EC)



Active ingredients	g/l
endosulfan	250
parathion	100

Company / undertaking
Rhône-Poulenc

Toxicity to man
Toxic in contact with skin and if swallowed

Countries where available
Guadeloupe Martinique

Dursban 2

Emulsifiable concentrate (EC)



Active ingredients	g/l
chlorpyrifos	228

Company / undertaking
DowElanco

Toxicity to man
Harmful if swallowed

Countries where available
Grenada Guadeloupe Martinique

Dyfonate 5 G

Microgranule (MG)



Active ingredients	g/kg
fonofos	50

Company / undertaking
AgrEvo

Toxicity to man
Toxic by inhalation, in contact with skin and if swallowed

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Ekalux

Emulsifiable concentrate (EC)



Active ingredients

quinalphos

g/l

242.5

Company / undertaking

Novartis

Toxicity to man

Toxic if swallowed
Irritating to eyes

Countries where available

Guadeloupe Martinique

Ekalux forte

Emulsifiable concentrate (EC)



Active ingredients

quinalphos

g/l

480

Company / undertaking

Novartis

Toxicity to man

Toxic if swallowed
Irritating to eyes

Countries where available

St Vincent

Evisect S

Water soluble powder (SP)



Active ingredients

thiocyclam

g/kg

500

Company / undertaking

Novartis

Toxicity to man

Harmful by inhalation and if swallowed
Irritating to eyes and skin
May cause sensitisation by skin contact

Countries where available

St Vincent

Fastac

Emulsifiable concentrate (EC)



Active ingredients

alpha-cypermethrin

g/l

50

Company / undertaking

Cyanamid

Toxicity to man

Harmful by inhalation, in contact with skin and if swallowed

Countries where available

Guadeloupe Martinique St Lucia
St Vincent

COMMERCIAL PRODUCTS

Folicur 250 EW

Emulsion, oil in water (EW)



Active ingredients	g/l
tebuconazole	250

Company / undertaking
Bayer

Toxicity to man
Harmful if swallowed Risk of serious damage to eyes

Countries where available
Guadeloupe Martinique

Fongarid 25 WP

Wettable powder (WP)

Active ingredients	g/kg
furalaxyl	250

Company / undertaking
Novartis

Toxicity to man

Countries where available
Guadeloupe Martinique

Fulvax 2000

Wettable powder (WP)



Active ingredients	g/kg
cymoxanil	60
mancozeb	700

Company / undertaking
Novartis

Toxicity to man
Irritating to respiratory system May cause sensitisation by skin contact

Countries where available
Guadeloupe Martinique

Funginex

Emulsifiable concentrate (EC)



Active ingredients	g/l
triforine	190

Company / undertaking
Rhône-Poulenc

Toxicity to man
Harmful by inhalation and in contact with skin Irritating to eyes and skin

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Furadan 10 G

Granules (GR)



Active ingredients	g/kg
carbofuran	100

Company / undertaking
FMC

Toxicity to man
Harmful by inhalation and if swallowed

Countries where available
Dominica Grenada St Lucia St Vincent

Furadan 5 G

Granules (GR)



Active ingredients	g/kg
carbofuran	50

Company / undertaking
FMC

Toxicity to man
Harmful by inhalation and if swallowed

Countries where available
Guadeloupe Martinique

Fusilade

Emulsifiable concentrate (EC)



Active ingredients	g/l
fluazifop-P-butyl	250

Company / undertaking
Zeneca

Toxicity to man
Irritating to eyes and skin

Countries where available
Dominica St Kitts

Fusilade 2

Emulsifiable concentrate (EC)



Active ingredients	g/l
fluazifop-P-butyl	125

Company / undertaking
Zeneca

Toxicity to man
Risk of serious damage to eyes Irritating to skin

Countries where available
Dominica Grenada Guadeloupe Martinique St Kitts St Lucia St Vincent

COMMERCIAL PRODUCTS

Gamma col

Suspension concentrate (SC)



Active ingredients	g/l
lindane	800

Company / undertaking
Zeneca

Toxicity to man

Toxic by inhalation, in contact with skin and if swallowed
Irritating to eyes and skin

Countries where available

Guadeloupe Martinique

Gammalin 20

Emulsifiable concentrate (EC)



Active ingredients	g/l
lindane	200

Company / undertaking
Zeneca

Toxicity to man

Harmful if swallowed
Irritating to eyes, respiratory system and skin

Countries where available

Grenada

Garlon 4

Emulsifiable concentrate (EC)



Active ingredients	g/l
triclopyr	480

Company / undertaking
DowElanco

Toxicity to man

Harmful if swallowed
Irritating to skin
May cause sensitisation by skin contact

Countries where available

Guadeloupe Martinique

Gemm

Combined packaging : Suspension concentrate (SC) / Dispersible concentrate (DC)



Active ingredients	g/l
fenbutatin oxide (SC)	550
flufenoxuron (DC)	100

Company / undertaking
Cyanamid

Toxicity to man

Irritating to eyes

Countries where available

Guadeloupe Martinique

COMMERCIAL PRODUCTS

Gesagard 50 WP

Wettable powder (WP)



Active ingredients	g/kg
prometryn	500

Company / undertaking
Novartis

Toxicity to man
Irritating to eyes

Countries where available
St Kitts St Vincent

Gesapax 500 FW

Suspension concentrate (SC)

Active ingredients	g/l
ametryn	500

Company / undertaking
Novartis

Toxicity to man

Countries where available
Guadeloupe Martinique St Kitts St Lucia

Gesapax 80 WP

Wettable powder (WP)

Active ingredients	g/kg
ametryn	800

Company / undertaking
Novartis

Toxicity to man

Countries where available
Dominica Guadeloupe Martinique

Gesapax combi 500 FW

Suspension concentrate (SC)



Active ingredients	g/l
ametryn	250
atrazine	250

Company / undertaking
Novartis

Toxicity to man
Irritating to skin

Countries where available
Grenada St Kitts St Vincent

Gesaprim 500 FW

Suspension concentrate (SC)



Active ingredients	g/l
atrazine	500

Company / undertaking
Novartis

Toxicity to man

Countries where available
Grenada

Gesaprim combi 80 WG

Water dispersible granules (WG)



Active ingredients	g/kg
atrazine	400
terbutryn	400

Company / undertaking
Novartis

Toxicity to man

Countries where available
St Kitts

Gesatop 500 FW

Suspension concentrate (SC)



Active ingredients	g/l
simazine	500

Company / undertaking
Novartis

Toxicity to man

Countries where available
Dominica Grenada Guadeloupe
Martinique St Lucia

Gesatope Z

Emulsifiable concentrate (EC)



Active ingredients	g/l
ametryn	250
simazine	250

Company / undertaking
Novartis

Toxicity to man
Irritating to skin
Possible risks of irreversible effects

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Gramocil

Suspension concentrate (SC)



Active ingredients	g/l
diuron	100
paraquat	200

Company / undertaking
Zeneca

Toxicity to man

Toxic if swallowed
Harmful in contact with skin
Irritating to eyes and skin

Countries where available

Dominica Grenada St Lucia
St Vincent

Gramoxone

Soluble concentrate (SL)



Active ingredients	g/l
paraquat	200

Company / undertaking
Zeneca

Toxicity to man

Toxic if swallowed
Harmful in contact with skin
Irritating to eyes and skin

Countries where available

Dominica Grenada St Kitts

Gramoxone super

Soluble concentrate (SL)



Active ingredients	g/l
paraquat	200

Company / undertaking
Zeneca

Toxicity to man

Toxic if swallowed
Harmful in contact with skin
Irritating to eyes and skin

Countries where available

Dominica Grenada St Kitts

COMMERCIAL PRODUCTS

Herbacyl DT liquide

Suspension concentrate (SC)



Active ingredients	g/l
amitrole	167
bromacil	46
diuron	134

Company / undertaking
Rhône-Poulenc

Toxicity to man
Harmful if swallowed

Countries where available
Guadeloupe Martinique

Hyvar X

Wettable powder (WP)

Active ingredients	g/kg
bromacil	800

Company / undertaking
Du Pont

Toxicity to man

Countries where available
Dominica Grenada Guadeloupe
Martinique St Lucia St Vincent

Kaffil super 25 EC

Emulsifiable concentrate (EC)



Active ingredients	g/l
cypermethrin	250

Company / undertaking
Zeneca

Toxicity to man
Harmful if swallowed
Risk of serious damage to eyes
Irritating to skin

Countries where available
Guadeloupe Martinique

Karate 2.5 EC

Emulsifiable concentrate (EC)



Active ingredients	g/l
lambda-cyhalothrin	25

Company / undertaking
Zeneca

Toxicity to man
Harmful if swallowed
Risk of serious damage to eyes
Irritating to skin

Countries where available
Dominica Grenada St Kitts
St Lucia St Vincent

COMMERCIAL PRODUCTS

Karmex

Wettable powder (WP)



Active ingredients	g/kg
diuron	800

Company / undertaking
Du Pont

Toxicity to man
Harmful if swallowed

Countries where available
Dominica Guadeloupe Martinique
St Kitts St Lucia St Vincent

Kelthane 50 L

Emulsifiable concentrate (EC)



Active ingredients	g/l
dicofol	425

Company / undertaking
Novartis

Toxicity to man
Harmful in contact with skin
Irritating to skin
May cause sensitisation by skin contact

Countries where available
Guadeloupe Martinique

Kerb flo

Suspension concentrate (SC)



Active ingredients	g/l
propyzamide	400

Company / undertaking
AgrEvo

Toxicity to man
Possible risks of irreversible effects

Countries where available
Guadeloupe Martinique

Kilval

Soluble concentrate (SL)



Active ingredients	g/l
vamidothion	400

Company / undertaking
Rhône-Poulenc

Toxicity to man
Harmful by inhalation, in contact with skin and if swallowed
Irritating to eyes

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Klartan

Emulsion, oil in water (EW)



Active ingredients	g/l
tau-fluvalinate	240

Company / undertaking
Novartis

Toxicity to man
Harmful if swallowed Irritating to skin

Countries where available
Guadeloupe Martinique

Klerat pellets

Bait (RB)

Active ingredients	g/kg
brodifacoum	0.05

Company / undertaking
Zeneca

Toxicity to man
May cause mild irritation following eye contact

Countries where available
Dominica Grenada Guadeloupe Martinique St Kitts St Lucia St Vincent

Klerat wax blocks

Block bait (BB)

Active ingredients	g/kg
brodifacoum	0.05

Company / undertaking
Zeneca

Toxicity to man
May cause mild irritation following eye contact

Countries where available
St Lucia St Vincent

Kocide 101 PM

Wettable powder (WP)

Active ingredients	g/kg
copper hydroxide	500

Company / undertaking
Rhône-Poulenc

Toxicity to man

Countries where available
Dominica Grenada Guadeloupe Martinique St Lucia St Vincent

COMMERCIAL PRODUCTS

Kytrol GT

Suspension concentrate (SC)



Active ingredients	g/l
amitrole	100
ammonium thiocyanate	90
bromacil	70
diuron	200

Company / undertaking

CFPI

Toxicity to man

Danger of serious damage to health by prolonged exposure, by ingestion
Possible risks of irreversible effects
Irritating to eyes

Countries where available

Guadeloupe Martinique

Lannate 20 L

Emulsifiable concentrate (EC)



Active ingredients	g/l
methomyl	200

Company / undertaking

Du Pont

Toxicity to man

Toxic by inhalation and if swallowed
Irritating to eyes

Countries where available

Dominica Grenada Guadeloupe
Martinique St Lucia

Lebaycid EC 50

Emulsifiable concentrate (EC)



Active ingredients	g/l
fenthion	550

Company / undertaking

Bayer

Toxicity to man

Toxic if swallowed
Harmful by inhalation and in contact with skin
Irritating to skin

Countries where available

Guadeloupe Martinique

COMMERCIAL PRODUCTS

Lentagran

Wettable powder (WP)



Active ingredients	g/kg
pyridate	450

Company / undertaking
Novartis

Toxicity to man
Irritating to eyes May cause sensitisation by contact with skin

Countries where available
Guadeloupe Martinique

Manzate 200

Wettable powder (WP)



Active ingredients	g/kg
mancozeb	800

Company / undertaking
Du Pont

Toxicity to man
Irritating to respiratory system May cause sensitisation by contact with skin

Countries where available
Dominica Grenada Guadeloupe Martinique St Kitts St Lucia St Vincent

Mavrik flo

Emulsion, oil in water (EW)



Active ingredients	g/l
tau-fluvalinate	240

Company / undertaking
Novartis

Toxicity to man
Harmful if swallowed Irritating to skin

Countries where available
Guadeloupe Martinique

Mertect 20 S

Soluble concentrate (SL)



Active ingredients	g/l
thiabendazole	220

Company / undertaking
Merck

Toxicity to man

Countries where available
Dominica Grenada St Lucia St Vincent

COMMERCIAL PRODUCTS

Mesuro! RF

Bait ready for use (RB)



Active ingredients	g/kg
methiocarb	40

Company / undertaking
Bayer

Toxicity to man
Harmful if swallowed

Countries where available
Guadeloupe Martinique

Metasystox R 250 EC

Emulsifiable concentrate (EC)



Active ingredients	g/l
oxydemeton-methyl	250

Company / undertaking
Bayer

Toxicity to man
Toxic in contact with skin and if swallowed
Irritating to eyes
May cause sensitisation by skin contact

Countries where available
Grenada Guadeloupe Martinique
St Lucia

Miral 10 G

Granules (GR)



Active ingredients	g/kg
isazofos	100

Company / undertaking
Novartis

Toxicity to man
Harmful if swallowed

Countries where available
Dominica St Lucia St Vincent

Mocap 10 G

Granules (GR)



Active ingredients	g/kg
ethoprophos	100

Company / undertaking
Rhône-Poulenc

Toxicity to man
Harmful in contact with skin and if swallowed

Countries where available
Grenada Guadeloupe Martinique
St Lucia St Vincent

COMMERCIAL PRODUCTS

Mocap 20 EC

Emulsifiable concentrate (EC)



Active ingredients	g/l
ethoprophos	200

Company / undertaking
Rhône-Poulenc

Toxicity to man
Very toxic in contact with skin Toxic if swallowed

Countries where available
Dominica Guadeloupe Martinique

Morestan

Wettable powder (WP)



Active ingredients	g/kg
chinomethionat	250

Company / undertaking
Bayer

Toxicity to man

Countries where available
Guadeloupe Martinique

Nemacur 5

Granules (GR)



Active ingredients	g/kg
fenamiphos	50

Company / undertaking
Bayer

Toxicity to man
Toxic if swallowed

Countries where available
Guadeloupe Martinique

Nemacur GR 10

Granules (EC)



Active ingredients	g/kg
fenamiphos	100

Company / undertaking
Bayer

Toxicity to man
Toxic if swallowed

Countries where available
Dominica Grenada St Lucia

COMMERCIAL PRODUCTS

Neoron 250 EC

Emulsifiable concentrate (EC)



Active ingredients	g/l
bromopropylate	250

Company / undertaking
Novartis

Toxicity to man
Harmful by inhalation

Countries where available
Guadeloupe Martinique

Nogos 500 EC

Emulsifiable concentrate (EC)



Active ingredients	g/l
dichlorvos	500

Company / undertaking
Novartis

Toxicity to man
Very toxic by inhalation and in contact with skin
Toxic if swallowed
May cause sensitisation by skin contact

Countries where available
Grenada

Nomolt SC

Suspension concentrate (SC)

Active ingredients	g/l
teflubenzuron	150

Company / undertaking
Cyanamid

Toxicity to man

Countries where available
Dominica St Kitts St Lucia
St Vincent

Oncol S

Microgranule (MG)

Active ingredients	g/kg
benfuracarb	86

Company / undertaking
Du Pont

Toxicity to man

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Opus

Suspension concentrate (SC)



Active ingredients	g/l
epoxiconazole	125

Company / undertaking
BASF

Toxicity to man
Possible risks of irreversible effects

Countries where available
Guadeloupe Martinique

Orthene 50

Water soluble powder (SP)

Active ingredients	g/kg
acephate	500

Company / undertaking
Rhône-Poulenc

Toxicity to man

Countries where available
Guadeloupe Martinique

Ouragan

Soluble concentrate (SL)



Active ingredients	g/kg
glyphosate-trimesium	480

Company / undertaking
Zeneca

Toxicity to man
Harmful if swallowed

Countries where available
Guadeloupe Martinique

Pacol 4,5

Emulsion, water in oil (EO)



Active ingredients	g/l
parathion	45

Company / undertaking
Rhône-Poulenc

Toxicity to man
Toxic in contact with skin Harmful if swallowed

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Pelt 44 liquide

Suspension concentrate (SC)



Active ingredients	g/l
thiophanate-methyl	450

Company / undertaking
AgrEvo

Toxicity to man
Possible risks of irreversible effects

Countries where available
Guadeloupe Martinique

Peltar flo

Suspension concentrate (SC)



Active ingredients	g/l
maneb	300
thiophanate-methyl	150

Company / undertaking
AgrEvo

Toxicity to man
Possible risks of irreversible effects
May cause sensitisation by skin contact

Countries where available
Guadeloupe Martinique

Peltis 40

Emulsifiable concentrate (SC)



Active ingredients	g/l
thiophanate-methyl	400

Company / undertaking
AgrEvo

Toxicity to man
Possible risks of irreversible effects

Countries where available
Guadeloupe Martinique

Percut

Emulsifiable concentrate (EC)



Active ingredients	g/l
bifenthrin	40
clofentezine	200

Company / undertaking
AgrEvo

Toxicity to man
Irritating to eyes

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Perfekthion

Emulsifiable concentrate (EC)



Active ingredients	g/l
dimethoate	400

Company / undertaking
BASF

Toxicity to man
Harmful in contact with skin and if swallowed

Countries where available
Grenada St Kitts St Vincent

Peropal

Wettable powder (WP)



Active ingredients	g/kg
azocyclotin	250

Company / undertaking
Bayer

Toxicity to man
Irritating to eyes and skin

Countries where available
Guadeloupe Martinique

Phosdrin W 10

Soluble concentrate (SL)



Active ingredients	g/l
mevinphos	100

Company / undertaking
Cyanamid

Toxicity to man
Toxic by inhalation, in contact with skin and if swallowed

Countries where available
Guadeloupe Martinique

Phytorex

Grain bait (AB)



Active ingredients	g/kg
metaldehyde	50

Company / undertaking
Bayer

Toxicity to man

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Polymone 60

Soluble concentrate (SL)



Active ingredients	g/l
2,4-D	100
mecoprop	400

Company / undertaking
Zeneca

Toxicity to man
Harmful if swallowed
Irritating to eyes and skin

Countries where available
Guadeloupe Martinique

Polyram DF

Water dispersible granules (WG)



Active ingredients	g/kg
metiram	700

Company / undertaking
BASF

Toxicity to man
May cause sensitisation by skin contact

Countries where available
St Lucia

Primicid 50 EC

Emulsifiable concentrate (EC)



Active ingredients	g/l
pirimiphos-ethyl	500

Company / undertaking
Zeneca

Toxicity to man
Harmful in contact with skin and if swallowed

Countries where available
Dominica Grenada St Lucia
St Vincent

Printazol 75

Soluble concentrate (SL)



Active ingredients	g/l
2,4-D	561
MCPA	463

Company / undertaking
AgrEvo

Toxicity to man
Harmful by inhalation, in contact with skin and if swallowed

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Printazol N

Soluble concentrate (SL)



Active ingredients	g/l
2,4-D	561
MCPA	463
picloram	15

Company / undertaking
AgrEvo

Toxicity to man
Harmful by inhalation, in contact with skin and if swallowed

Countries where available
Guadeloupe Martinique

Prowl

Suspension concentrate (SC)

Active ingredients	g/l
pendimethalin	400

Company / undertaking
Cyanamid

Toxicity to man
Mild skin and eye irritant

Countries where available
Guadeloupe Martinique

Psilatox granules 5

Granules (GR)



Active ingredients	g/kg
chlorfenvinphos	50

Company / undertaking
Rhône-Poulenc

Toxicity to man
Harmful if swallowed

Countries where available
Guadeloupe Martinique

Pulsan

Wettable powder (WP)



Active ingredients	g/kg
cymoxanil	32
mancozeb	560
oxadixyl	80

Company / undertaking
Novartis

Toxicity to man
Irritating to respiratory system
May cause sensitisation by contact with skin

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Pulsan pepite

Water dispersible granules (WG)



Active ingredients	g/kg
cymoxanil	32
mancozeb	560
oxadixyl	80

Company / undertaking
Novartis

Toxicity to man

Irritating to respiratory system
May cause sensitisation by contact with skin

Countries where available

Guadeloupe Martinique

Punch B 40 EC

Emulsifiable concentrate (EC)



Active ingredients	g/kg
flusilazole	400

Company / undertaking
Du Pont

Toxicity to man

Harmful if swallowed
Possible risks of irreversible effects

Countries where available

Dominica Grenada Guadeloupe
Martinique

Rapid

Emulsifiable concentrate (EC)



Active ingredients	g/l
pirimicarb	50

Company / undertaking
Zeneca

Toxicity to man

Irritating to eyes and skin

Countries where available

Guadeloupe Martinique

R-bix

Soluble concentrate (SL)



Active ingredients	g/l
paraquat	100

Company / undertaking
Zeneca

Toxicity to man

Toxic if swallowed
Harmful in contact with skin
Irritating to eyes and skin

Countries where available

Guadeloupe Martinique

COMMERCIAL PRODUCTS

Regent 5 GR

Granules (GR)



Active ingredients	g/kg
fipronil	0.5

Company / undertaking
Rhône-Poulenc

Toxicity to man

Countries where available

Dominica	Guadeloupe	Martinique
St Kitts	St Vincent	

Reglone

Soluble concentrate (SL)



Active ingredients	g/l
diquat	200

Company / undertaking
Zeneca

Toxicity to man
Harmful if swallowed
Irritating to eyes and skin

Countries where available

Dominica	Grenada	Guadeloupe
Martinique	St Kitts	St Lucia
St Vincent		

Ridomil 5 G

Granules (GR)



Active ingredients	g/kg
metalaxyl	50

Company / undertaking
Novartis

Toxicity to man

Countries where available

St Lucia

Ridomil MZ 72 WP

Wettable powder (WP)



Active ingredients	g/kg
mancozeb	640
metalaxyl	80

Company / undertaking
Novartis

Toxicity to man
Irritating to skin
May cause sensitisation by skin contact

Countries where available

Dominica	Grenada	St Lucia
St Vincent		

COMMERCIAL PRODUCTS

Rimitox

Grain bait (AB)



Active ingredients	g/kg
chlorophacinone	0.08

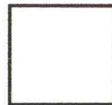
Company / undertaking
Rhône-Poulenc

Toxicity to man

Countries where available
Guadeloupe Martinique

Rizolex

Flowable concentrate for seed treatment (FS)



Active ingredients	g/l
tolclofos-methyl	250

Company / undertaking
Zeneca

Toxicity to man

Countries where available
Grenada

Rizolex 50 WP

Wettable powder (WP)



Active ingredients	g/kg
tolclofos-methyl	500

Company / undertaking
Sumitomo

Toxicity to man

Countries where available
Dominica Grenada St Lucia

Rogor 50

Emulsifiable concentrate (EC)



Active ingredients	g/l
dimethoate	500

Company / undertaking
Zeneca

Toxicity to man

Harmful by inhalation, in contact with skin and if swallowed
Irritating to eyes and skin

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Ronstar

Emulsifiable concentrate (EC)



Active ingredients	g/l
oxadiazon	250

Company / undertaking
Rhône-poulenc

Toxicity to man
Irritating to eyes

Countries where available
St Kitts

Ronstar TX

Granules (GR)

Active ingredients	g/kg
carbetamide	15
oxadiazon	20

Company / undertaking
Rhône-Poulenc

Toxicity to man

Countries where available
Guadeloupe Martinique

Roundup

Soluble concentrate (SL)



Active ingredients	g/l
glyphosate	360

Company / undertaking
Monsanto

Toxicity to man
Harmful by inhalation Irritating to eyes

Countries where available
Guadeloupe Martinique

Rovral

Wettable powder (WP)

Active ingredients	g/kg
iprodione	500

Company / undertaking
Rhône-poulenc

Toxicity to man

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Rubigan 4

Emulsifiable concentrate (EC)



Active ingredients	g/l
fenarimol	40

Company / undertaking
DowElanco

Toxicity to man

Countries where available
Guadeloupe Martinique

Rufast

Emulsifiable concentrate (EC)



Active ingredients	g/l
acrinathrin	150

Company / undertaking
AgrEvo

Toxicity to man

May impair fertility
May cause harm to the unborn child
Irritating to respiratory system
Risk of serious damage to eyes

Countries where available
Guadeloupe Martinique

Rugby 10 G

Granules (GR)



Active ingredients	g/kg
cadusafos	100

Company / undertaking
FMC

Toxicity to man

Toxic by inhalation and in contact with skin
Harmful if swallowed

Countries where available

Dominica	Guadeloupe	Martinique
St Lucia	St Vincent	

Saprol 1

Emulsifiable concentrate (EC)



Active ingredients	g/l
triforine	210

Company / undertaking
Cyanamid

Toxicity to man

Harmful in contact with skin and if swallowed
Irritating to eyes and skin

Countries where available

Guadeloupe Martinique

COMMERCIAL PRODUCTS

Score 250 EC

Emulsifiable concentrate (EC)



Active ingredients	g/l
difenoconazole	250

Company / undertaking
Novartis

Toxicity to man
Irritating to eyes
Risk of serious damage to eyes

Countries where available
Guadeloupe Martinique

Serk EC

Emulsifiable concentrate (EC)



Active ingredients	g/l
endosulfan	200
thiometon	66.7

Company / undertaking
Novartis

Toxicity to man
Toxic if swallowed

Countries where available
Guadeloupe Martinique

Sevin 80 S

Wettable powder (WP)



Active ingredients	g/kg
carbaryl	800

Company / undertaking
Rhône-Poulenc

Toxicity to man
Harmful by inhalation and if swallowed

Countries where available
Grenada

Sevin 85 WP

Wettable powder (WP)



Active ingredients	g/kg
carbaryl	850

Company / undertaking
Rhône-Poulenc

Toxicity to man
Harmful by inhalation and if swallowed

Countries where available
Dominica Grenada St Kitts
St Lucia

COMMERCIAL PRODUCTS

Sherpa 10 EC

Emulsifiable concentrate (EC)



Active ingredients	g/l
cypermethrin	100

Company / undertaking
Rhône-Poulenc

Toxicity to man

Countries where available
St Lucia

Sigma

Oil miscible flowable concentrate (OF)



Active ingredients	g/l
thiophanate-methyl	400

Company / undertaking
Rhône-Poulenc

Toxicity to man

Countries where available
Grenada St Lucia

Sirdate S

Suspension concentrate (SC)



Active ingredients	g/l
cymoxanil	48
folpet	300
oxadixyl	80

Company / undertaking
Du Pont

Toxicity to man
Harmful if swallowed
Irritating to eyes
May cause sensitisation by skin contact

Countries where available
Guadeloupe Martinique

Skipper

Granular bait (GB)



Active ingredients	g/kg
thiodicarb	40

Company / undertaking
Rhône-Poulenc

Toxicity to man
Harmful if swallowed

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Slalom

Emulsifiable concentrate (EC)



Active ingredients	g/l
bifenthrin	20
dicofol	360

Company / undertaking
Rhône-Poulenc

Toxicity to man
Harmful if swallowed
Irritating to eyes
May cause sensitisation by skin contact

Countries where available
Guadeloupe Martinique

Snapshot 2.5 G

Granules (GR)

Active ingredients	g/kg
isoxaben	5
trifluralin	20

Company / undertaking
DowElanco

Toxicity to man

Countries where available
Guadeloupe Martinique

Sumicidin 10

Emulsifiable concentrate (EC)



Active ingredients	g/l
fenvalerate	100

Company / undertaking
Cyanamid

Toxicity to man
Harmful by inhalation, in contact with skin and if
swallowed
Irritating to eyes and skin

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Sumicombi

Emulsifiable concentrate (EC)



Active ingredients	g/l
fenitrothion	250
fenvalerate	50

Company / undertaking
Cyanamid

Toxicity to man

Harmful by inhalation, in contact with skin and if swallowed
Irritating to eyes and skin

Countries where available

Guadeloupe Martinique

Surflan

Suspension concentrate (SC)



Active ingredients	g/l
oryzalin	480

Company / undertaking
DowElanco

Toxicity to man

May cause sensitisation by skin contact

Countries where available

Dominica Grenada St Lucia

Sygan S

Suspension concentrate (SC)



Active ingredients	g/l
cymoxanil	48
folpet	480

Company / undertaking
Du Pont

Toxicity to man

Harmful if swallowed
Irritating to eyes
May cause sensitisation by skin contact

Countries where available

Guadeloupe Martinique

COMMERCIAL PRODUCTS

Syphal LS

Water dispersible granules (WG)



Active ingredients	g/l
copper oxychloride	250
cymoxanil	48
folpet	96
mancozeb	160

Company / undertaking
Du Pont

Toxicity to man
Irritating to eyes

Countries where available
Guadeloupe Martinique

Talon cut wheat bait

Grain bait (AB)



Active ingredients	g/kg
brodifacoum	0.05

Company / undertaking
Zeneca

Toxicity to man

Countries where available
Grenada St Lucia

Talstar

Emulsifiable concentrate (EC)



Active ingredients	g/l
bifenthrin	100

Company / undertaking
Rhône-Poulenc

Toxicity to man
Harmful if swallowed
Irritating to eyes

Countries where available
Guadeloupe Martinique

Tambo 440 EC

Emulsifiable concentrate (EC)



Active ingredients	g/l
cypermethrin	40
profenofos	400

Company / undertaking
Novartis

Toxicity to man
Harmful if swallowed
Irritating to skin
May cause sensitisation by skin contact

Countries where available
Dominica Grenada St Lucia

COMMERCIAL PRODUCTS

Temik 10 G

Granules (GR)



Active ingredients	g/kg
aldicarb	100

Company / undertaking
Rhône-Poulenc

Toxicity to man
Toxic in contact with skin and if swallowed

Countries where available
Guadeloupe Martinique

Thiodan 50 WP

Wettable powder (WP)



Active ingredients	g/kg
endosulfan	500

Company / undertaking
AgrEvo

Toxicity to man
Very toxic by inhalation
Toxic if swallowed
Harmful in contact with skin

Countries where available
St Lucia

Tilt 250 EC

Emulsifiable concentrate (EC)



Active ingredients	g/l
propiconazole	250

Company / undertaking
Novartis

Toxicity to man
Irritating to eyes

Countries where available
Dominica Grenada Guadeloupe
Martinique St Lucia St Vincent

Topas 100 EC

Emulsifiable concentrate (EC)



Active ingredients	g/l
penconazole	100

Company / undertaking
Novartis

Toxicity to man
Irritating to eyes

Countries where available
Guadeloupe Martinique St Vincent

COMMERCIAL PRODUCTS

Tordon 101

Soluble concentrate (SL)



Active ingredients	g/l
2,4-D	240
picloram	65

Company / undertaking
DowElanco

Toxicity to man
May cause sensitisation by skin contact

Countries where available
Guadeloupe Martinique St Vincent

Tordon 22 K

Soluble concentrate (SL)

Active ingredients	g/l
picloram	240

Company / undertaking
DowElanco

Toxicity to man

Countries where available
Guadeloupe Martinique

Torque S

Suspension concentrate (SC)

Active ingredients	g/l
fenbutatin oxide	550

Company / undertaking
Cyanamid

Toxicity to man

Countries where available
Grenada Guadeloupe Martinique

Touchdown

Soluble concentrate (SL)



Active ingredients	g/l
glyphosate-trimesium	480

Company / undertaking
Zeneca

Toxicity to man
Harmful if swallowed

Countries where available
Dominica Grenada St Kitts
St Lucia

COMMERCIAL PRODUCTS

Tracker 108 EC

Emulsifiable concentrate (EC)



Active ingredients	g/l
tralomethrin	108

Company / undertaking
Du Pont

Toxicity to man
Harmful by inhalation and if swallowed Risk of serious damage to eyes

Countries where available
Guadeloupe Martinique

Trigard 75 WP

Wettable powder (WP)

Active ingredients	g/kg
cyromazine	750

Company / undertaking
Novartis

Toxicity to man

Countries where available
Dominica Guadeloupe Martinique St Lucia St Vincent

Trimiltox fort

Wettable powder (WP)



Active ingredients	g/kg
copper oxychloride	234
mancozeb	200
cupric compounds	219

Company / undertaking
Novartis

Toxicity to man
Irritating to respiratory system May cause sensitisation by contact with skin

Countries where available
Dominica St Kitts St Vincent

Ultracide 20 liquide

Emulsifiable concentrate (EC)



Active ingredients	g/l
methidathion	193

Company / undertaking
Novartis

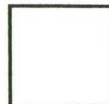
Toxicity to man
Toxic in contact with skin and if swallowed

Countries where available
Guadeloupe Martinique

COMMERCIAL PRODUCTS

Vectra BN

Oil miscible liquid (OL)



Active ingredients	g/l
bromuconazole	200

Company / undertaking
Rhône-Poulenc

Toxicity to man

Countries where available
Dominica St Vincent

Velpar S

Water soluble powder (SP)



Active ingredients	g/kg
hexazinone	900

Company / undertaking
Du Pont

Toxicity to man
Irritating to eyes

Countries where available
Guadeloupe Martinique St Lucia

Vertimec

Emulsifiable concentrate (EC)



Active ingredients	g/l
abamectin	18

Company / undertaking
Merck

Toxicity to man
Harmful by inhalation and if swallowed
Irritating to eyes and skin

Countries where available
Guadeloupe Martinique St Vincent

Vydate L

Soluble concentrate (SL)



Active ingredients	g/l
oxamyl	240

Company / undertaking
Du Pont

Toxicity to man
Very toxic by inhalation
Toxic if swallowed
Harmful in contact with skin

Countries where available
Dominica Grenada Guadeloupe
Martinique St Vincent

COMMERCIAL PRODUCTS

Weedone LV 6

Emulsifiable concentrate (EC)



Active ingredients	g/l
2,4-D	720

Company / undertaking
CFPI

Toxicity to man
Harmful if swallowed Irritating to eyes and skin

Countries where available
Guadeloupe Martinique

Winch

Suspension concentrate (SC)



Active ingredients	g/l
isoxaben	107
oryzalin	428

Company / undertaking
DowElanco

Toxicity to man

Countries where available
Guadeloupe Martinique

Zolone flo

Suspension concentrate (SC)



Active ingredients	g/l
phosalone	500

Company / undertaking
Rhône-poulenc

Toxicity to man
Harmful if swallowed

Countries where available
Guadeloupe Martinique

Zolone liquide

Emulsifiable concentrate (EC)



Active ingredients	g/l
phosalone	350

Company / undertaking
Rhône-poulenc

Toxicity to man
Irritating to eyes

Countries where available
Guadeloupe Martinique

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Vegetables and fruits harvested in the West-Indies

VEGETABLES

English name	French name	Latin name
Annatto	Roucou	<i>Bixa orellana</i>
Arrow-root	Toloman	<i>Canna edulis</i>
Asparagus	Asperge	<i>Asparagus officinalis</i>
Assai	Palmiste franc	<i>Euterpe oleracea</i>
Beet	Betterave	<i>Beta vulgaris</i>
Bottle gourd	Gourde	<i>Lagenaria vulgaris</i>
Breadfruit	Fruit à pain	<i>Artocarpus incisa</i>
Brassicas	Choux	<i>Brassica oleracea</i>
Carrot	Carotte	<i>Daucus carota</i>
Cassava	Manioc	<i>Manihot esculenta</i>
Cassia	Casse	<i>Cassia fistula</i>
Castor bean	Ricin	<i>Ricinus communis</i>
Celery	Céleri	<i>Apium graveolens</i>
Christophene	Christophine	<i>Sechium edule</i>
Cinnamon	Cannelle	<i>Cinnamomum zeylandicum</i>
Corn	Maïs	<i>Zea mays</i>
Corn salad	Mâche	<i>Valerianella olitoria</i>
Cowpea	Pois de canne	<i>Dolichos sinensis</i>
Cucumber	Concombre	<i>Cucumis sativus</i>
Dasheen	Madère, tarot	<i>Colocasia esculenta</i>
Eggplant	Aubergine	<i>Solanum melongena</i>
Gherkin	Massissi	<i>Cucumis anguria</i>
Ginger	Gingembre	<i>Zingiber officinalis</i>
Hyacinth bean	Pois Bourcoussou	<i>Dolichos lablab</i>
Leek	Poireau	<i>Allium porrum</i>
Lettuce	Laitue	<i>Lactuca sativa</i>
Lima bean	Pois souche	<i>Phaseolus lunatus</i>
Melon	Melon	<i>Cucumis melo</i>
Mint	Menthe	<i>Mentha spicata</i>
Nutmeg	Noix de muscade	<i>Myristica fragrans</i>
Okra	Gombo	<i>Hibiscus esculentus</i>
Onion	Oignon	<i>Allium cepa</i>
Palm cabbage	Chou palmiste montagne	<i>Sabal palmetto</i>
Parsley	Persil	<i>Petroselinum crispum</i>
Pea	Pois	<i>Pisum spp.</i>
Peanut	Arachide, "pistache"	<i>Arachis hypogaea</i>

English name	French name	Latin name
Pepper	Piment	<i>Capsicum annuum</i>
Plantain	Plantain	<i>Musa paradisiaca</i>
Poke	Calalou	<i>Phytolacca decandra</i>
Potato	Pomme de terre	<i>Solanum tuberosum</i>
Pumpkin	Citrouille	<i>Cucurbita pepo</i>
Radish	Radis	<i>Raphanus sativus</i>
Royal palm	Palmier royal	<i>Roystonea regia</i>
Spinach	Epinard	<i>Spinacia oleracea</i>
String bean	Haricot vert	<i>Phaseolus vulgaris</i>
Sweet potato	Patate douce	<i>Ipomea batatas</i>
Tamarind	Tamarin	<i>Tamarindus indica</i>
Tannia	Malanga, chou caraïbe	<i>Xanthosoma</i> spp.
Thyme	Thym	<i>Thymus vulgaris</i>
Tomato	Tomate	<i>Lycopersicum esculentum</i>
Topinambur	Topinambour	<i>Helianthus tuberosus</i>
Turnip	Navet	<i>Brassica napus</i>
Vanilla	Vanille	<i>Vanilla planifolia</i>
Water cress	Cresson de fontaine	<i>Nasturtium officinale</i>
Water melon	Pastèque	<i>Citrullus vulgaris</i>
Welsh onion	Cive	<i>Allium fistulosum</i>
Yam	Igname	<i>Dioscorea</i> spp.
Zucchini	Courgette	<i>Cucurbita melopepo</i>

FRUITS

English name	French name	Latin name
Avocado	Avocat	<i>Persea americana</i>
Banana	Banane	<i>Musa paradisiaca sapientum</i>
Carambola	Carambole	<i>Averrhoa carambola</i>
Chestnut	Chataigne	<i>Castanea sativa</i>
Citrus	Agrumes	<i>Citrus</i> spp.
Cocoaplum	Icaque	<i>Chrysobalanus icayaco</i>
Coconut	Noix de coco	<i>Cocos nucifera</i>
Genip tree	Quenette	<i>Melicocca bijuga</i>
Giant granadilla	Barbadine	<i>Passiflora quadrangularis</i>
Golden apple	Pomme Cythère	<i>Spondias cytherea</i>
Guava	Goyave	<i>Psidium guajava</i>
Jujube	Surette	<i>Zizyphus jujuba</i>
Litchi	Litchi	<i>Litchi sinensis</i>
Mammee apple	Abricot de St-Domingue	<i>Mammea americana</i>
Mango	Mangue	<i>Mangifera indica</i>
Monbin	Prune monbin	<i>Spondias lutea</i>
Passion fruit	Grenadille	<i>Passiflora edulis</i>
Pawpaw	Papaye	<i>Carica papaya</i>
Pigeon pea	Pois cajan	<i>Cajanus cajan</i>
Pineapple	Ananas	<i>Ananas comosus</i>
Pistachio	Pistache	<i>Pistacia vera</i>
Plum	Prune	<i>Prunus domestica</i>
Pomegranate	Grenade	<i>Punica granatum</i>
Pomerac	Pomme d'Haïti	<i>Eugenia malaccensis</i>
Red monbin	Prune rouge	<i>Spondias purpurea</i>
Rose apple	Pomme rose ou d'eau	<i>Eugenia jambos</i>
Sapodilla	Sapotille	<i>Achras sapota</i>
Sapote	Sapote	<i>Calocarpum sapota</i>
Sea grape	Raisin de bord de mer	<i>Coccoloba uvifera</i>
Soursop	Corossol	<i>Annona muricata</i>
Strawberry	Fraise	<i>Fragaria</i> spp.
Sugar apple	Pomme cannelle	<i>Annona squamosa</i>
Tropical almond	Amande des Antilles	<i>Terminalia catappa</i>
Water nut	Macre	<i>Trapa natans</i>
West Indian cherry	Cerisier de Ste-Lucie	<i>Prunus mahaleb</i>

Conversion factors

Conversions

Usual rates

1 g/kg	=	0.0160 oz./lb.
1 g/l	=	0.1601 oz./gal. (imperial) 0.1336 oz./gal. (US)
1 l/ha	=	0.0890 gal./acre (imperial) 0.1069 gal./acre (US)
1 g/ha	=	0.0143 oz./acre

Conversion factors

Mass

1 g	=	0.0353 oz.
1 kg	=	2.2046 lbs.

Area

1 ha	=	2.4711 acre
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Volume

1 l	=	35.195 fl. oz. (imperial) 33.813 fl. oz. (US) 0.2199 gal. (imperial) 0.2642 gal. (US)
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Directory

Agro-chemical companies

Abbott Laboratories

Chemical & Agricultural Products Division
1401 Sheridan Road
North Chicago, Illinois 60064
USA
tel: +1 800 323 9597
fax: +1 847 937 3679

American Cyanamid Co.

Agricultural Research Division
PO Box 400
Princeton, New Jersey 08543
USA
tel: +1 609 716 2000
fax: +1 609 275 3523

BASF A.G.

Landwirtschaftliche Versuchsstation
Postfach 120
67114 Limburgerhof
Germany
tel: +49 621 600
fax: +49 621 604 25 25

BAYER A.G.

Pflanzenschutzzentrum-Monheim
D-5090 Leverkusen Bayerwerk
Germany
tel: +49 2173 380
fax: +49 2173 383 383

CFPI Agro

28, boulevard Camélinat
B.P. 75
92233 Gennevilliers cédex
tel: +33 1 40 85 50 50
fax: +33 1 47 92 25 45

DowElanco

9330 Zionsville Road
Indianapolis, Indiana 46268
USA
tel: +1 317 337 4974
fax: +1 317 337 7344

Elf Atochem Agri

1, rue des Frères-Lumières
78373 Plaisir cédex
France
tel: +33 1 30 81 73 00
fax: +33 1 30 81 72 50

E.I. Du Pont de Nemours

Agricultural Products
Walker's Mill, Barley Mill Plaza
PO Box 80038
Wilmington, Delaware 19880
USA
tel: +1 800 441 7515
fax: +1 302 992 6470

FMC Corp.

Agricultural Chemical Group
1735 Market Street
Philadelphia, Pennsylvania 19103
USA
tel: +1 215 299 6661
fax: +1 215 299 6256

Hoecsht Schering AgrEvo GmbH

Miraustrasse 54
PF 27 06 54
13476 Berlin-Reinickendorf
Germany
tel: +49 304 39 080
fax: +49 304 39 082 22

ISK Biosciences Corp.

5966 Heisley Road
PO Box 8000
Mentor, Ohio 44061
tel: +1 216 357 4100
fax: +1 216 354 9506

Merck & Co., Incorporated

Merck AgVet Division
PO Box 2000
Rahway, New Jersey 07065
USA
tel: +1 908 855 4277
fax: +1 908 855 6480

Monsanto Co.

Crop Protection
800 N. Lindbergh Blvd.
Saint Louis, MO 63167
USA
tel: +1 314 694 3540
fax: +1 314 694 2306

Novartis Crop Protection A.G.

CH-4002 Basel
Switzerland
tel: +41 61 697 1111
fax: +41 61 324 8001

Rhône-Poulenc Agro

14-20 rue Pierre Baizet
BP 9163
69263 Lyon cedex 09
France
tel: +33 4 72 85 25 25
fax: +33 4 72 85 27 99

Sumitomo Chemical Company, Ltd

5-33 Kitahama 4 chome
Chuo-Ku, Osaka 541
Japan
tel: +81 6 220 3683
fax: +81 6 220 3342

Zeneca Agrochemicals

Fernhurst - Haslemere
Surrey GU27 3JE
United-Kingdom
tel: +44 1 428 644 061
fax: +44 1 428 652 922

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