



Ministry of Fisheries, Marine Resources & Agriculture

Male', Maldives

Approved Agricultural Pesticide Registry

| Common Name / Active Ingredient | Formulations | Concentration (%) | Pesticide Type | US EPA Toxicity Class | WHO Hazard Class | Host Plant/Area | Target Pest |
|---------------------------------|--------------|----------------------------------|----------------|-----------------------|------------------|---|--|
| 1- Naphthaleneacetic acid | | | | | | | |
| Acephate | WP, SP | 2.5, 75 | Insecticide | III | Class II | fruit (including citrus), vine , peanuts, beet, brassicas, celery, beans, ornamentals, forestry and other crops | aphids, thrips, lepidopterous larvae, sawflies, leafminers, leafhoppers, cutworms |
| Acephate + Imidacloprid | SP | Acephate 50% + Imidacloprid 1.8% | | | | | |
| Acetamiprid | SP, SL, SG | 20, 30, 45 | Insecticide | | Class II | fruit, vegetables, and ornamentals | Colorado beetle, fleahopper, fruit moth, leafhoppers, leafminers, plant bugs, thrips, whiteflies |
| Acetamiprid + monosultap | SP | Acetamiprid 15% + monosultap 30% | | | | | |



| | | | | | | | |
|---------------------|--------|----------------|--------------------------------------|-----|----------|--|---|
| Alanycarb | | | Insecticide | II | Class II | Vines, pome fruit, citrus fruit, and vegetable | coleoptera, hemiptera, lepidoptera and thysanoptera |
| Alcohol ethoxylate | | | Adjuvant | | | | |
| Alpha-cypermethrin | SC, EC | 1.47, 10, 9.88 | Insecticide | II | Class II | fruit (including citrus), vegetables, Vines, maize, beet, forestry and other crops | Lepidoptera, coleoptera and hemiptera |
| Aluminium phosphide | | | Fumigant, Fungicide, Rodenticide | I | FM | | Rodents |
| Aluminium sulfate | | | Plant Growth Regulator, Molluscicide | | | | |
| Ametoctradin | | | Fungicide | | | | |
| Aminocyclopyrachlor | | | Herbicide | | | Use on Turf | |
| Aminopyralid | | | Herbicide | | | industrial vegetation, rangeland, pastures | |
| Amisulbrom | | | Fungicide | | | fruits and vegetables | blight |
| Ammonium Nonanoate | | | Herbicide | | | nurseries, greenhouses, landscapes, and interior scapes | |
| Azamethiphos | WP, SL | 0.08, 1, 10 | Insecticide | III | Class II | | Beetle, bugs, flies, spiders and other arthropods |



| | | | | | | | |
|--|--------|--|--|----|-----------|---|---|
| Azoxystrobin + Difenoconazole + Alcohol, C16-18, Ethoxylated | SC | Azoxystrobin 18.2% + Difenoconazole 11.4% + Alcohol, C16-18, Ethoxylated 15- 25% | | | | | |
| Benzalkonium chloride | | | Microbiocide , Algacide, Herbicide | | | | |
| Beta-cyfluthrin | | 25 | Insecticide | II | Class Ib | deciduous fruit, vegetables, turf and ornamentals | Lepidoptera, coleoptera, hemiptera and homoptera |
| Beta-cypermethrin | | | Insecticide | II | | fruits, grapes, sugar beat, and vegetables | coleoptera, diptera, hemiptera, lepidoptera and orthoptera |
| Bicyclopyrone | | | Herbicide | | | | |
| Bifenthrin | EC, SC | 10 | Insecticide | II | Class II | citrus, fruit, grapes, ornamentals and vegetables | coleoptera, diptera, heteroptera, homoptera, lepidoptera and orthoptera |
| Bixafen | | | Fungicide | | | fruits, vegetables, ornamentals and forestry | |
| Borax | | | Insecticide, Herbicide, Fungicide | II | Class III | Non crop land | |
| Bordeaux mixture | | | Fungicide | | | Vegetables, fruits and nuts | insects, plants, fungus and algae |
| Boric acid | TB | 2.5, 40, 60 | Insecticide | | | | Ant Poisons |



| | | | | | | | |
|-----------------------------------|--------|---|---|---------|-----------|---|--|
| Boric acid + Tricalcium phosphate | | Boric acid 99% + Tricalcium phosphate <1% | | | | | |
| Brodifacoum | RB | 0.0005, 0.005, 0.25, 0.3, 5 | Rodenticide | I | Class Ia | | Rodents, including strains resistant to conventional anticoagulant |
| Bromadiolone | RB | 0.005 | Rodenticide | III | Class Ia | | Control of rats and mice, including those resistant to warfarin |
| Buprofezin | WP | 25 | Insect Growth Regulator, Insecticide | III | Class III | banana, Citrus, grapes, cucumbers, lettuce, melons, pumpkins, snap beans, squash, tomatoes, ornamentals | Mealybugs, planthoppers, scales, whiteflies |
| Captan | WG, WP | 50, 80 | Fungicide | IV | U | Pome fruit, stone fruit, peach, cherries, apricot, plum, citrus fruit, vine, tomato, carrot, cucurbits, ornaments and other crops | scab, gloeosporium, rots, shot hole, leaf curl, brown rots, early and late blight, alternaria blight, leaf spot, anthracnose, downy mildew |
| Carbaryl | WP | 50, 80, 85 | Insecticide, Plant Growth Regulator, Nematicide | II, III | Class II | Citrus fruit, vegetable , forage, forests, field crops, nuts, ornamentals, rangeland, turf, shade trees | lepidoptera, coleoptera, chewing and sucking insects |



| | | | | | | | |
|------------------------------------|------------|---|---|-----|----------|---|---|
| Carbendazim | WP, DF, SC | 50 | Fungicide, Breakdown product | III | U | Banana, fruits, grape, mushroom, ornamentals, peanuts, plantation crops, turf, vegetable and other crops | Ascomycetes, fungi imperfecti, basidiomycetes |
| Cartap hydrochloride | GR, SP | 4, 50 | Insecticide | II | Class II | cabbage, peanut, sunflower, maize, pome fruit, stone fruit, citrus fruit, vines, ginger, tea, and sugar cane | potato beetle, diamondback moth, grass leafroller, rice stem borer, thrips |
| Chloralose/alphachloralose | WP | 90 | Rodenticide, Bird Repellent | II | Class II | | birds, rodents, foxes, and other pest animals |
| Chlorantraniliprole | | | Insecticide | | | fruits, vegetables, ornamentals, forestry greenhouse and nursery plants | |
| Chlorantraniliprole + Thiamethoxam | WG | Chlorantraniliprole 20% + Thiamethoxam20 % | | | | | |
| Chlorfluazuron | | 0.1 | Insect Growth Regulator, Insecticide | | U | ornamental, tea, fruits and vegetables | Heliothis, Spodoptera, Bemisia tabaci and other chewing insects |



| | | | | | | | |
|--|------------|---|---|------|----------|---|--|
| Chlorothalonil | EC, SC, WP | 40.3, 50, 53.94, 75, 78.12 | Fungicide | I,II | U | pome fruit, stone fruit, citrus fruit, bush and cane fruit, cranberries, strawberries, pawpaws, banana, mango, coconut palm, vegetable, cucurbits, maize, ornamentals, mushroom, turf | many fungal diseases |
| Chlorothalonil + Iprodione + thiophanate methyl | | Chlorothalonil 28.7% + Iprodione 9.4% + thiophanate methyl 9.4% | | | | | |
| Citronella Oil | | | Insect Repellent, Dog and Cat Repellent | | | | |
| Clothianidin + Metofluthrin + Piperonyl Butoxide | | Clothianidin 0.4% + Metofluthrin 0.01% + Piperonyl Butoxide 1% | | | | | |
| Copper hydroxide | WP | 50, 60, 77 | Fungicide, Microbiocide, Nematicide, Antibiotic | I | Class II | Vines, brassicas, celery, millet | peronosporaceae, Alternaria, phytophthora, Septoria, Leptosphaeria, Mycosphaerella |
| Copper oxide | WP | 50, 77 | Fungicide, Insecticide | III | | Seed, horticulture crops, fruits and vegetables | blight, downy mildew, rust |



| | | | | | | | |
|----------------------|------------|-----------------------------|------------------------------------|-------|----------|--|--|
| Copper oxychloride | WP | 50 | Fungicide | III | Class II | beet, citrus, fruit, grapes, plantation crop, tomato, vegetables, ornamentals | late blight, leaf spot, downy mildew, canker, scab, melanose, rust, leaf curl, shot hole, cane, leaf scorch, anthracnose, blister blight, bacterial diseases |
| Copper sulfate | | | Fungicide, Algaecide, Molluscicide | I | Class II | Pond, lake, potable water, fish hatcheries, streams, ditches, swimming pools, sewer, crops and trees | Algae, Dutch elm, copper lime dust, tadpole shrimp |
| Coumatetralyl | RB, DP, WP | 0.0375, 0.75 | Rodenticide | I | Class Ib | Storage Area | Rats |
| Cyantraniliprole | | | Insecticide | | | cucurbits, fruiting vegetables, grapes, pome fruit, stone fruit | |
| Cyenoxyfen | | | Insecticide, Acaricide/Miticide | | | fruit, vegetables | |
| Cyfluthrin | EW | 5 | Insecticide | I,III | Class Ib | cereals, fruit and vegetables | cereal, corn, deciduous fruit, sugarcane, sunflower, vegetables |
| Cymoxanil | | | Fungicide | II | Class II | vines and tomatoes | downy mildew and late blight |
| Cymoxanil + Mancozeb | WP | Cymoxanil 8% + Mancozeb 64% | | | | | |



| | | | | | | | |
|---|----|--|---------------------------------------|-----|----------|--|--|
| Cypermethrin | EC | 10.5, 10, 25, 35, 20, 10, 2.5, 25.3, 6.5 | Insecticide | III | Class II | | |
| Cypermethrin + 1-butanol + 1,2,4-trimethylbenzene + Naphthalene | | Cypermethrin 26% + 1-butanol <2% + 1,2,4- trimethylbenzene <2% + Naphthalene <10% | | | | | |
| Cyphenothrin | EC | 5, 7.2 | Insecticide, Fumigant | | Class II | Household use, public health, industrial use | Houseflies, midges, cockroaches |
| Cyphenothrin + D-tetramethrin | EC | Cyphenothrin 4% + D-tetramethrin 12% | | | | | |
| Cyprodinil | | | Fungicide | III | | lemon, lime, cereal, field crops, grapes, stone fruit, pome fruit, strawberry, fruit, vegetable and as seed dressings | |
| Cyprodinil + Fludioxonil | | | Fungicide | | | | |
| Cyprosulfamide | | | Herbicide Safener | | | corn | |
| Dazomet | | | Fumigant, Fungicide, Nematicide | II | Class II | Soil sterilant | Soil fungi, nematodes, germinating weed seeds and soil insects |



| | | | | | | | |
|--|---------------------|--|-------------|----|----------|--|--|
| Deltamethrin | EC, WP, SC, EW, ULV | 4, 0.03, 1.25, 2, 2.5, 2.8, 3, 62.5, 98 | Insecticide | II | Class II | citrus, grapes, maize, top fruits and vegetables, soil surface, stored grain | Coleoptera, heteroptera, homoptera, lepidoptera, thysanoptera, locusts, noctuidae, crawling and flying insects |
| Deltamethrin + Piperonyl Butoxide | SC | Deltamethrin 1% + Piperonyl Butoxide 8% | | | | | |
| Deltamethrin + S-bioallethrin | EC | Deltamethrin 2.8% + S-bioallethrin 0.89% | | | | | |
| Deltamethrin + S-bioallethrin + Piperonyl butoxide | | Deltamethrin 0.6% + S-bioallethrin 0.85% + Piperonyl butoxide 11.90% | | | | | |



| | | | | | | | |
|----------------|------------|---------------|-------------|--------|----------|---|---|
| Diazinon | GR, EC, EW | 5, 50, 55, 80 | Insecticide | II/III | Class II | deciduous fruit trees, citrus fruit, vines, bananas, pineapples, vegetables, beet, sugar cane, maize, sorghum, ornamentals, glasshouse crops, forestry, mushroom cultivation, animal houses, household use, seed treatment for maize, veterinary ectoparasiticide | sucking and chewing insects, mites, phorids, sciarid flies, flies, lice, mites, fleas, cockroaches, bedbugs, ants, fruit flies, birds |
| Difenacoum | RB | 0.0005 | Rodenticide | I | Class Ia | | rats and mice |
| Difenoconazole | EC | 25 | Fungicide | III | Class II | Foliar and seed treatment fruits, cereals and vegetables, | Ascomycetes, Basidiomycetes and deuteromycetes and seed bone pathogens |
| Difethialone | | | Rodenticide | | Class Ia | | Commensal rats and mice (including warfarin resistant strains) |



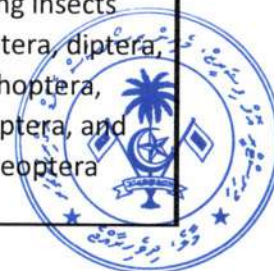
| | | | | | | | |
|---------------|-------------|--------------|-------------------------|-----|-----------|---|---|
| Diflubenzuron | | | Insect Growth Regulator | | Class III | forestry, woody ornamentals and fruits, citrus, vegetable, mushroom, | leaf eating insects, larvae of flies, mosquitoes, grasshoppers and migratory locusts. lice, fleas, blowfly larvae, codling moth, leafminers, mites, cotton boll weevil, army worm, leafworm |
| Dimethoate | EC, SL | 30, 30.5, 40 | Insecticide | II | Class II | citrus, fruit, grapes, pastures, tea, vegetables and ornaments | Acari, Aphididae, Aleyrodidae, Coccidae, Coleoptera, Collembola, Diptera, Lepidoptera, Pseudococcidae, Thysanoptera and flies |
| Dimetilan | | | Insecticide | | O | | |
| Dinotefuran | GR, SL, WSG | 1, 10, 40 | Insecticide | | Class III | brassica, cucurbits, fruiting and leafy vegetables, grapes, ornamentals | |
| D-phenothrin | EC | 10 | Insecticide | III | U | industrial location and outdoor use | Insects of public health |



| | | | | | | | |
|--|--------|---|---------------------------------|------------|-----------|---|---|
| d-phenothrin + n-Octyl bicycloheptene dicarboximide + Imidacloprid + Isobutane | | d-phenothrin 0.4% + n-Octyl bicycloheptene dicarboximide 1% + Imidacloprid 0.05% + Isobutane 5< - >15 | | | | | |
| Enrofloxacin (for veterinary use) | | | | | | | |
| Esfenvalerate | FL | 5 | Insecticide | II | Class II | fruit and vegetables | coleoptera, diptera, hemiptera, lepidoptera and orthoptera |
| Ethephon | EC, SL | 40, 48 | Plant Growth Regulator | I, II, III | Class III | bromeliads, cantaloupe, cherries, cucumber, grapes, gauva, ornamentals, peppers, pineapple, squash, sugarcane, tomato, | |
| Ethion | | | Insecticide, Acaricide/Miticide | II | Class II | pome fruit, stone fruit, citrus fruit, vines, vegetables, ornamentals, maiz, sorghum, cucurbits, strawberries, turf and other crops | spider mites, aphids, scale insects, thrips, lepidopterous larvae, leafhoppers, suckers, soil-dwelling, and other insects |



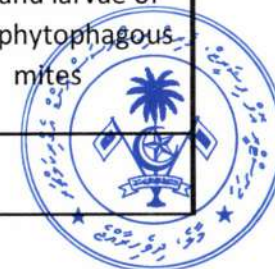
| | | | | | | | |
|---------------|----|----|---------------------------------|-----|----------|---|--|
| Etofenprox | EC | 10 | Insecticide | III | U | pome fruit, stone fruit, citrus fruit, brassicas, cucumber, aubergines and other crops | rice water weevils, skippers, leaf beetles, leafhoppers, planthoppers, bugs, aphids, moths, butterfly, whitefly, leaf miners, leaf rollers, thrips, borers |
| Fenitrothion | | | Insecticide, Acaricide/Miticide | III | Class II | soft fruit, tropical fruit, vines, sugar cane, vegetables, turf and forestry | chewing, sucking and boring insects |
| Fenobucarb | EC | 50 | Insecticide | II | Class II | sugar cane, cucurbits, aubergines, capsicum | leafhoppers, planthoppers, thrips, weevils, bollworm and aphids |
| Fenoxasulfone | | | Herbicide | | | | |
| Fenpropathrin | | | Insecticide, Acaricide/Miticide | II | Class II | pome fruit, citrus fruit, vines, vegetables, ornamentals, field crops, cucurbits, tomatoes | mites, whitefly, lepidopterous larvae, leaf miners, leafworms, bollworms |
| Fenvalerate | SC | 10 | Insecticide | II | Class II | fruits, vines, nuts, vegetable, cucurbits, sunflower, maize, sorghum, beet, peanut, sugar cane, ornamentals, forestry and non crop land | chewing, sucking and boring insects (lepidoptera, diptera, orthoptera, Hemiptera, and Coleoptera) |



| | | | | | | | |
|---------------------------|-------------------|---|----------------------------|-----|-----------|--|---|
| Ferrous sulphate | | | Herbicide, Molluscicide | | | lawn | Moss |
| Fipronil | SC, EC, WP, GR | 5, 4.95, 2.5, 0.3, 0.05, 0.1, 0.001 | Insecticide | II | Class II | crops and non crops | soil and foliar insects (corn rootworm beetle larvae, colorado potato beetle and rice water beetle) |
| Flazasulfuron | | | Herbicide | III | | turf, citrus, vine, sugarcane | broadleaf weeds, annual grass weeds, sedges |
| Flocoumafen | RB | 0.005 | Rodenticide | III | Class Ia | field, plantation crop, sugar cane and buildings | Rodents which have become resistant to other anticoagulant rodenticides |
| Flubendiamide | SC | 30, 39, 48 | Insecticide | | Class III | Corn, fruit, nuts, vegetables, vines | |
| Flubendiamide + Glycerine | SC | Flubendiamide 39% + Glycerine 10% | | | | | |
| Fludioxonil | | | Fungicide | III | U | Seed treatment, non cereal crops, vines, stone fruit. vegetables, field crops and turf | Gibberella, Fusarium, Tilletia, Helminthosporium, Septoria, Botrytis, Monilia, Sclerotinia, Rhizoctonia, Alternaria |
| Fluopyram | | | Fungicide | | | grapes, strawberries and tomatoes | |
| Flutianil | | | Fungicide | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | |



| | | | | | | | |
|--------------------------------------|----|----|---|-----|----------|---|--|
| Folpet | | | Fungicide | III | U | pome fruit, stone fruit, soft fruit, citrus fruit, vines, lettuce, cucurbits, onion, leeks. celery, tomato and ornamentals | downy mildew, powdery mildew, leaf spot disease, scab, gloeosporium rots, botrytis, alternaria, pythium, rhizoctonia |
| Fosetyl-aluminium | | | Fungicide, Antibiotic/Bactericide | III | U | lettuce, strawberries, pome fruit, citrus fruit, pineapple, avocado, vines, cucurbits, onions, cocoa, ornamental plants and shrubs | Phycomycetes (Phytophthora, Plasmopara, Bremia) |
| Glufosinate-ammonium | SL | 28 | Herbicide | III | Class II | fruit orchards, vineyards, plantation crops, oil plant plantation, ornamental trees, bushes, non crop land, pre emergence in vegetables | annual and perennial broad-leaved weeds and grasses |
| Glufosinate-P | | | Herbicide | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | |
| Hexythiazox | | | Insect Growth Regulator, Acaricide/Miticide | III | U | fruit, vines, vegetables, and ornamentals (horticulture crops) | eggs and larvae of many phytophagous mites |
| Horticultural oil (white summer oil) | | | | | | | |



| | | | | | | | |
|--------------------------------|------------------------|---|-------------|-----|----------|---|--|
| Hydramethylnon | PC | 1, 1.8, 2 | Insecticide | III | Class II | agriculture and household use | agriculture and household formicidae |
| Imicyafos | | | Nematicide | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | |
| Imidacloprid | WG, SC, SL, GR, EC, TC | 20, 10, 17.8, 0.5, 18.3, 21.4, 30.5, 70 | Insecticide | III | Class II | Seed dressing and soil treatment and as foliar treatment of maize, vegetables, citrus fruit, pome fruit and stone fruit | sucking insects, termites, biting insects (rice weevil, colorado beetle) |
| Imidacloprid + Beta-cyfluthrin | | Imidacloprid 19.8% + Beta-cyfluthrin 8.5% | | | | | |
| Imidacloprid + Beta-Cyfluthrin | SC | Imidacloprid 2.1% + Beta-Cyfluthrin 1.05% | | | | | |
| Imidacloprid + Cyfluthrin | SC | Imidacloprid 21% + Cyfluthrin 10.5% | | | | | |
| Indaziflam | | | Herbicide | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | |
| Indoxacarb | SC, EC | 0.05, 14.5, 15 | Insecticide | | Class II | field crops, vegetables and fruits | Lepidoptera and other pests |
| Ipfencarbazone | | | Herbicide | | | | |



| | | | | | | | |
|----------------|--------|----------------|--|-----|-----------|---|---|
| Iprodione | | | Fungicide | III | Class III | vegetables, ornamentals, pome fruit, stone fruit, currants, strawberries, cucurbits, beet, sunflower, turf, and other crops. post harvest dip or seed treatment | Botrytis, Monilia, Sclerotinia, Alternaria, Corticium, Fusarium, Helminthosporium, Phoma, Rhizoctonia and Typhula |
| Isoprothiolane | | | Fungicide, Insecticide | III | Class II | fruits, vegetables and ornamentals | rice blast, rice stem rot and fusarium leaf spot |
| Isotanal | | | Fungicide | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | |
| Lufenuron | | | Insecticide, Acaricide/Miticide, Insect Growth Regulator | | Class III | vegetables, citrus fruit, pets and houses | Lepidoptera larvae, Coleoptera larvae, citrus whitefly, rust mite, flea, cockroaches |
| Malathion | EC, UL | 50, 57, 84, 96 | Insecticide | III | Class III | pome, soft fruit, stone fruit, vegetables and stored grains | Coleoptera, Diptera, Hemiptera, Hymenoptera, Lepidoptera |
| Mancozeb | | | Fungicide | III | U | field crop, fruit, nuts and vegetables | blight, leaf spot, rust, downy mildew and scab |
| Maneb | | | Fungicide | III | U | field crop, fruit, nuts, vegetables, ornamentals and turf | blight, leaf spot, rust, downy mildew and scab |



| | | | | | | | |
|------------------------|--------|-----------------------------------|-----------------------|-----|----------|---|--|
| Meptyldinocap | | | Fungicide | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | powdery mildew |
| Metalaxyl | | | Fungicide | III | Class II | avocado, citrus fruit and seed treatment | downy mildew, late blight, soilborne disease caused by phytophthora and phythium |
| Metalaxyl-M + Mancozeb | WG | Metalaxyl-M 4% + Mancozeb 64% | | | | | |
| Metaldehyde | GR, WP | 1, 6.7, 98 | Molluscicide | III | Class II | field, greenhouse, citrus orchard, berries, and ornamentals, vegetables, fruits | slugs and snails |
| Metazosulfuron | | | Herbicide | | | | |
| Methiozolin | | | Herbicide | | | turf and non food crops | |
| Nitrobenzene | EC | 20, 22 | Chemical intermediate | | | | |
| Novaluron | | | Insecticide | III | U | fruit, nuts , vegetables, ornamentals and turf | Agromyzid leafminers, lepidoptera, and white flies |
| Novaluron + Indoxacarb | SC | Novaluron 5.25% + Indoxacarb 4.5% | | | | | |
| Penflufen | | | Fungicide | | | | |



| | | | | | | | |
|---------------------------|----|-----------------------------------|------------------------|---------|----------|--|--|
| Permethrin | EC | 10, 25, 30, 50 | Insecticide | II, III | Class II | fruits, vegetables and other crops, animal housing | Lepidoptera, coleoptera, animal eco parasites, biting flies, blattodea, diptera, hymenoptera, crawling insects, and flying insects |
| Permethrin + tetramethrin | EC | Permethrin 20% + tetramethrin 10% | | | | | |
| Phenthoate | EC | 50 | Insecticide | II | Class II | citrus fruit, pome fruit, berries, maize, sunflower, sugarcane, vegetables, cucurbits, and ornamentals | aphids, scale insects, jassids, lepidopterouslarvae, bollworms, borers, leafhoppers, planthoppers, mealybugs, lace bugs, suckers, thrips, whitefly and spidermites |
| Phoxim | | | Insecticide | III | Class II | granaries, mills, silos, ships, household, maize; vegetable, potatoes | stored-product insects, ants, caterpillars, soil insects, migratory locusts and other insects |
| Picloram | | | Herbicide | II | U | grasslands and non-crop areas | woody weed, bracken, fern, docks |
| Piperonyl butoxide | EW | 10 | Synergist, Insecticide | | U | | |



| | | | | | | | |
|--|--------|---|---------------------------------|-----|----------|---|--|
| Piperonyl Butoxide + Metofluthrin + d,d -T-Cyphenothrin 6.0% | EW | Piperonyl Butoxide 10% + Metofluthrin 0.1% + d,d -T-Cyphenothrin 6.0% | | | | | |
| Pirimiphos-methyl | EC | 50 | Insecticide | II | Class II | warehouse, stored grain, animal house, domestic and industrial premises, vegetables, ornamentals, bulb flowers, sugar cane, maize, sorghum, citrus fruit, other fruit, tomato, cucumber, capsicum, aubergines, and other glasshouse crops | insects, mites, chewing insects, sucking insects, boring insects, mites, whitefly, thrips, mealybugs, and aphids |
| Polybutene | | | Rodenticide | | | | |
| Potassium salt of fatty acid | | 49.52, 47 | | | | | |
| Potassium salts of Fatty acid + Neem oil + Pyrethrins | | Potassium salts of Fatty acid 1% + Neem oil 0.9% + Pyrethrins 0.012% | | | | | |
| Primisulfuron-methyl | | | Herbicide | III | | fruits and nuts and field cropping areas | grass weeds and many broad-leaved weeds |
| Profenofos | EC, SL | 50 | Insecticide, Acaricide/Miticide | III | Class II | maize, vegetables, and other crops | lepidoptera and mites |
| Profenofos + Cypermethrin | EC | Profenofos 40% + Cypermethrin 4% | | | | | |



| | | | | | | | |
|--|----|---|-------------------------|------------|----------|--|---|
| Propamocarb hydrochloride | | | Fungicide | III | | vegetables, ornamentals, glasshouse tomatoes, glasshouse cucumbers, tulips, and in forestry seedbeds, turfs, lettuce, cucurbits, cabbage, tomatoes, strawberries, seed treatment | Phycomycetous diseases, Phythium blight, phytophthora infestans, pytophthora cactorum |
| Propineb | WP | 70 | Fungicide, Microbiocide | III | U | vines, apple, pears, stone fruit, tomatoes, ornamentals, vegetables, citrus fruit, berry fruit | downy mildew, black rots, red fire disease, grey mould, scab, brown rot, leaf spot disease, Alternaria blight, phytophthora blight, septoria leaf spot, leaf mould and rust |
| Propoxur | EC | 18.7, 2 | Insecticide | I, II, III | Class II | food storage areas, houses, animal houses, fruit, vegetable, ornamentals, vines, maize, sugar cane, and forestry | cockroaches, flies, fleas, mosquitoes, bugs, ants, millipedes, chewing insects, sucking insects, migratory locusts and grasshoppers |
| Propoxur + Tetramethrin + Piperonyl butoxide | AE | Propoxur 2% + Tetramethrin 0.2% + Piperonyl butoxide 1% | | | | | |



| | | | | | | | |
|---------------------------------|--------|---|--------------------------------------|-----|----------|---|--|
| Propyrisulfuron | | | Herbicide | | | non-food crops and forest areas | |
| Prothiofos | | | Insecticide | III | Class II | vegetables, fruit, maize, sugar cane, and ornamentals | leaf-eating caterpillars, pseudococcus spp, thrips, cockchafer larvae and cutworms |
| Pyrametostrobin | | | Fungicide | | | | |
| Pyraoxystrobin | | | Fungicide | | | Vegetables | |
| Pyrasulfotole | | | Herbicide | | | grass crops and fruits, turf and nonfood growing areas | |
| Pyrethrins | Liquid | 0.5, 5 | Insecticide | III | Class II | public health, Stored products, animal house, domestic animal, farm animal, fruit, vegetables, field crops, ornamentals, glasshouse crops and house plant | mites, chewing insects, sucking insects, spider mites |
| Pyrethrins + Beauveria bassiana | | Pyrethrins 0.75% + Beauveria bassiana 0.06% | | | | | |
| Pyrethrins + Piperonyl butoxide | | Pyrethrins 4% + Piperonyl butoxide 16% | | | | | |
| Pyrifluquinazon | | | Insecticide | | | greenhouse tomatoes | |
| Pyriproxyfen | EC | 100 | Insect Growth Regulator, Insecticide | III | U | Breeding sites | white fly, thrips, and public health insect pests |



| | | | | | | | |
|-----------------------------------|----|--|--------------------------|---------|----------|---|---|
| Pyriproxyfen + Beauveria bassiana | | Pyriproxyfen 70% + Beauveria bassiana 7% | | | | | |
| Pyroxasulfone | | | Herbicide | | | corn | |
| Pyroxulam | | | Herbicide | | | non food growing areas, turf | |
| Quinalphos | | | Insecticide | II | Class II | fruit tree, vegetable, beet, vines, ornamentals, nuts | lepidoptera, coleoptera, diptera, hemiptera, aphids, bollworms, borers, leafhoppers, mealybugs, mites, planthoppers and thrips |
| Saflufenacil | | | Herbicide | | | fruit crops, forestry and ornamentals | |
| S-bioallethrin | | | Insecticide | II, III | | field crop, fruit, nuts , vegetables, ornamentals and turf | flying insects and crawling insects |
| S-Bioallethrin + Permethrin | EC | S-Bioallethrin 0.78 + Permethrin 18.70% | | | | | |
| Spinetoram | SG | 0.5, 5.87 | Insecticide (Organic) | | U | field crop, fruit, nuts , vegetables, ornamentals | codling moth and leafminers |
| Spinetoram | | | Insecticide | | | pome fruit, tree nut, vegetables | codling moth, leafminers |
| Spirotetramat | | | Insecticide | | | citrus, grapes, pome fruit, stone fruit, tree nut, vegetables | |



| | | | | | | | |
|---|------------|---|--|-----|----------|---|--|
| Streptomycin | SP | 90 | Bactericide/ Antibiotic, Fungicide | III | | field crop, fruit, nuts , vegetables, ornamentals and turf | |
| Sulfoxaflor | | | Insecticide | | | | |
| Sulfur | WP, DF, WG | 80 | Fungicide, Insecticide | III | | field crop, fruit, nuts , vegetables, forestry, ornamentals and turf | scab, powdery mildew, shot hole, mites |
| Sulfur + Ethoxylated Alcohol + Polyoxyethylene dodecyl mono ether + Water | | Sulfur 45% + Ethoxylated Alcohol 3% + Polyoxyethylene dodecyl mono ether 2% + Water 55% | | | | | |
| Tebuconazole | EW | 25 | Fungicide | | Class II | field crop, fruit, nuts , vegetables, ornamentals and turf | smut and bunt disease, rust, powdery mildew, scab, powdery mildew fungi |
| Tebufenozide | | | Insect Growth Regulator | III | U | field crop, fruit, nuts , vegetables, ornamentals and forest crops | lepidopteran larvae |
| Tebufluoquin | | | Fungicide | | | | |
| Tefuryltrione | | | Herbicide | | | fruits, turn and ornamentals | |
| Tembotrione | | | Herbicide | | | fruits, turn and ornamentals | |



| | | | | | | | |
|----------------------|--------|------------|--|-----|-----------|---|---|
| Temephos | AB, GR | 1 | Insecticide/Larvicide | III | Class III | public health, Agriculture, Humans and domestic animals | larvae of anopheles, aedes, culex, simulium spp, flea and lice |
| Tetramethrin | | | Insecticide | III | U | public health and home garden use | flies, cockroaches, mosquitoes, wasps and other insect pests |
| Tetramethylfluthrin | | | Insecticide | | | | |
| Thiamethoxam | WG | 10, 20, 25 | Insecticide, Seed treatment/Protectant | III | Class II | seed treatment, field crop, fruit, nuts, vegetables, ornamentals and turf | |
| Thiencarbazon-methyl | | | Herbicide | | | fruits, turn and ornamentals | |
| Thiocyclam | SP | 50 | Insecticide | II | Class II | field crop, fruit, nuts, vegetables, ornamentals | lepidoptera, coleoptera, diptera, thysanoptera, colorad beetle, stemborers, corn borer, tanymecus, weevil and sugarcane stemborer |



| | | | | | | | |
|-----------------------------|----|--|-----------|--------|----------|--|---|
| Thiophanate-methyl | SP | 70 | Fungicide | III | U | field crop, fruit, nuts , vegetables, ornamentals and turf | eyespot, scab, monilia disease, gloeosporium rot, canker, powdery mildew, botrytis, sclerotinia, leaf spot disease, club root, dollar spot, corticium, fusarium, pyricularia oryzae and sigatoka disease |
| Thiophanate-methyl + Thiram | WP | Thiophanate- methyl 50% + Thiram 30% | | | | | |
| Thiram | WP | 75, 80 | Fungicide | III | Class II | seed treatment, field crop, fruit, nuts , vegetables, ornamentals and turf | botrytis spp, rust, scab, leaf curl, monilia, damping off disease |
| Trichoderma viride | WP | 1 | Fungicide | III | | | downy mildew, powdery mildew, fusarium wilt, verticillium wilt, leaf spot, root rot, stem rot |
| Triclopyr | | | Herbicide | I, III | Class II | forests, industrial sites, turf, permanent grass pastures, rangeland, non- irrigation ditchbanks | |
| Trifloxystrobin | WG | 50 | Fungicide | III | U | banana, cucurbits, grape, pome fruit, turf, ornamentals | |



| | | | | | | | |
|---|--|--|------------------------------|--|----------|--|---------------|
| Valifenalate | | | Fungicide | | | vegetables, ornamentals, forestry, nursery, greenhouse | mildew |
| Vitamin B1 (thiamin hydrochloride) | | | Plant Growth Regulator | | | | |
| Warfarin | | | Rodenticide | | Class Ib | | rats and mice |
| Zineb + Cymoxanil + Copper Oxychloride | | | | | | | |



Biopesticide

| Common Name / Active Ingredient | Formulations | Concentration (%) | Pesticide/ Chemical Class | Pesticide Type | US EPA Toxicity Class | WHO Hazard Class | Host Plant/Area | Target Pest |
|---------------------------------|--------------|-------------------|------------------------------------|-----------------------------------|-----------------------|------------------|---|---|
| 1-Methylcyclopropene | | | | Plant Growth Regulator | III | | fresh cut and potting flowers | |
| 6-Benzyladenine | | | Plant derived | Plant Growth Regulator | III | | fruits, vegetables, ornamentals and forestry | |
| Abamectin | EC, TK | 0.01, 1.8, 3.6 | Macrocyclic Lactone, Botanical | Acaricide/Miticicide, Insecticide | II | Class Ib | Ornamentals, citrus fruit, nut crops, vegetables, and other crops | Mites, leafminers, suckers, Colorado potato beetle, fire ants, pinworms |
| Agrobacterium radiobacter | | | Microbial, Beneficial bacterium | Fungicide | | | nurseries, orchards, and bare-root seedlings | crown gall infection |
| Amblyseius californicus | | | Beneficial insect (Predatory mite) | Insecticide | | | greenhouse, corn, ornamentals and interiorscapes | Willamette mites |
| Amblyseius cucumeris | | | Beneficial insect (Predatory mite) | Insecticide | | | greenhouse, vegetables and ornamentals | thrips |
| Amblyseius degenerans | | | Beneficial insect (Predatory mite) | Insecticide | | | fruit, vegetables, ornamentals | thrips |



| | | | | | | | | |
|---------------------------|--|--|---------------------------------------|----------------|-----|--|---|----------------|
| Amblyseius fallacis | | | Beneficial insect (Predatory mite) | Insecticide | | | greenhouses and nurseries and vegetables and fruits | mites |
| Amblyseius swirskii | | | Beneficial insect (Predatory mite) | Insecticide | | | | |
| Ampelomyces quisqualis | | | Microbial Fungus | Fungicide | | | cucurbits, grapes, tomatoes and ornamentals | powdery mildew |
| Anisopteromalus calandrae | | | Parasitoid | Insecticide | | | Stored grain | weevil |
| Annonin | | | | Insecticide | | | chillies roses, vegetables, and fruits | |
| Anthocoris nemoralis | | | Beneficial insect (Predatory bug) | Insecticide | | | | pear psylla |
| Anthraquinone | | | | Bird Repellent | III | | planted seeds | crows |
| Aphelinus abdominalis | | | Parasitoid | Insecticide | | | Sweet potato | potato aphids |
| Aphidius colemani | | | Parasitoid | Insecticide | | | vegetable crops, strawberry, melon | aphids |
| Aphidius ervi | | | Parasitoid | Insecticide | | | sweet potato | potato aphids |
| Aphidius matricariae | | | Parasitoid | Insecticide | | | fruits, vegetables and forestry | |



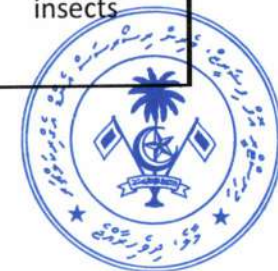
| | | | | | | | | |
|----------------------------|----|-------------------------|---|-------------------------|----|--|--|---|
| Aphidoletes aphidimyza | | | Beneficial insect (Predatory midge) | Insecticide | | | fruits, vegetables and forestry | aphids |
| Aphytis malinus | | | Parasitoid | Insecticide | | | fruits, vegetables and forestry | second and third instar of red scale, yellow scale, San jose scale and oleander scale |
| Aspergillus flavus | | | Fungus | Fungicide | | | fruits vegetables and turf, greenhouse | |
| Atheta coriaria | | | Beneficial insect (Predatory beetle) | Insecticide | | | fruits and vegetables | fungus gnats and shore flies |
| Autographa californica NPV | | | Baculovirus | Insecticide, Virus | | | corn, fruit, vegetables, and ornamentals | Lepidopteran larvae |
| Azadirachtin | EC | 0.15, 1.18, 3, 0.03, 70 | Botanical | Insecticide, Nematicide | IV | | Outdoor food crops | Aphids, beetles, borers, caterpillars, flies, leafhoppers, leafminers, nematodes, scales, thrips, weevils, whiteflies |



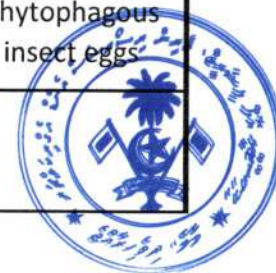
| | | | | | | | | |
|-------------------------------------|------------|----------|-----------|------------------------|---------|-----------|---|--|
| Bacillus cereus | | | Bacterium | Plant Growth Regulator | | | agriculture, horticulture and forestry | |
| Bacillus firmus | | | Bacterium | Nematicide | | | cucumber and tomatoes | root-knot nematodes |
| Bacillus licheniformis | | | Bacterium | Fungicide | III | | golf courses, lawns, and other ornamental turfgrass | |
| Bacillus pumilus | | | Bacterium | Fungicide | III | | roses, strawberries, tree fruits, vegetables, vines, corn, | |
| Bacillus sphaericus | | | Bacterium | Insecticide | III | | | mosquito larvae |
| Bacillus subtilis | | | Microbial | Fungicide | II, III | | seed treatment, field crop, fruit, nuts, vegetables, ornamentals and turf | Organisms which attack the root system |
| Bacillus thuringiensis | EC, WG, WP | 11.61, 4 | Bacterium | Insecticide | III | Class III | ornamentals, pome fruit, stone fruit, vines, tomatoes, vegetables and forests | Lepidoptera, diptera, coleoptera insects |
| Bacillus thuringiensis spp. aizawai | | | Bacterium | Insecticide | III | Class III | agriculture, horticulture and forestry | lepidopterous larvae |



| | | | | | | | | |
|---|--|--|---------------------|---------------------------|-----|-----------|--|--|
| Bacillus thuringiensis spp. israelensis | | | Bacterium | Insecticide, Larvicide | III | Class III | fruits, vegetables, forestry and turf | mosquito and blackfly larvae |
| Bacillus thuringiensis spp. kurstaki | | | Bacterium | Insecticide | III | Class III | agriculture, horticulture and forestry | lepidopterous larvae |
| Bacillus thuringiensis spp. Tenebrionis | | | Bacterium | Insecticide | III | Class III | eggplant, tomatoes, and ornamental trees | colorado potato beetle, elm leaf beetle |
| Bacteriophages | | | Virus | Fungicide | | | | |
| Beauveria bassiana | | | Microbial Fungus | Insecticide | III | | Fruit, vegetables, turf and ornamentals and nurseries | Aphids, Mealybugs, psyllids, thrips, weevils and white flies |
| Bee Attractant | | | Attractant | Attractant, Pheromone | | | | |
| Blasticidin-S | | | | Fungicide | III | Class Ib | | rice blast |
| Bracon hebetor | | | Parasitoid | Insecticide | | | stored grains | |
| Burkholderia cepacia | | | Bacterium | Fungicide | | | | |
| Candida oleophila | | | Microbial fungus | Fungicide | | | | |
| Capsaicin | | | Botanical | Repellent | III | | fruits, vegetables, ornamentals and forestry, non- agricultrue lands | rabbits, squirrels and soft bodied insects |



| | | | | | | | | |
|--------------------------|--|--|--------------------------------------|-----------------------------------|-----|--|--|--|
| Carcinops pumilio | | | Beneficial insect (Predatory beetle) | Insecticide | | | Poultry farm and livestock areas | flies |
| Chenopodium ambrosioides | | | Plant derived | Acaricide/Miticicide, Insecticide | | | fruits, vegetables, ornamentals and forestry nuts | aphids, leafhoppers, leafminers, plant-feeding mites, thrips and white flies |
| Chitosan | | | Crustacean derived | Fungicide | III | | fruits, vegetables, ornamentals and forestry greenhouse and nursery plants | Botrytis and powdery mildew |
| Chondrostereum purpureum | | | Microbial fungus | Herbicide | | | fruits, forests and hardwood trees | |
| Chrysoperla carnea | | | Beneficial insect (Predatory Bug) | Insecticide | | | field crops, orchards and greenhouses, fruits, nurseries and vegetables | aphids, caterpillars, leafhoppers, mealybugs, spider mites, scales, thrips, whiteflies |
| Chrysoperla rufilabris | | | Beneficial insect (Predatory Bug) | Insecticide | | | field crops, orchards and greenhouses, fruits, nurseries and vegetables | aphids, mites, and phytophagous insect eggs |
| Cinnamaldehyde | | | Plant derived | Fungicide, Repellent | III | | Greenhouse and horticulture crops | |



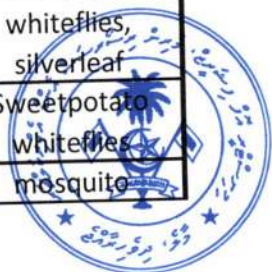
| | | | | | | | | |
|----------------------------------|--|--|------------------------------|--|-----|--|---|---|
| Clonostachys rosea f. catenulate | | | Microbial fungus | Fungicide | | | herbs, spices, vegetables, ornamentals, trees, shrub seedling and seedling production of horticultural plants | damping-off, seed rot, stem rot, root rot and wilt diseases |
| Clove Oil | | | Plant derived | Fungicide, Herbicide | | | field crops, orchards and greenhouses, fruits, nurseries and vegetables | weeds, silver scurf and sprout |
| Codlemone | | | Synthetic female sex hormone | Attractant/ Pheromone | | | field crops, orchards and greenhouses, fruits, nurseries and vegetables | codling moth |
| Colletotrichum gloeosporioides | | | Fungus | Herbicide | III | | | |
| Coniothyrium minitans | | | Microbial fungus | Fungicide | III | | field crops, orchards and greenhouses, fruits, nurseries and vegetables | Sclerotinia scchlerotorum and Sclerotinia minor |
| Corn Gluten Meal | | | Botanical | Attractant/ Pheromone , Herbicide, Insecticide | | | field crops, orchards and greenhouses, fruits, nurseries and vegetables | fruit fly |



| | | | | | | | | |
|---------------------------|--|--|--------------------------------------|------------------------|--|--|---|---|
| Cotesia plutella | | | Parasitoid | Insecticide | | | field crops, orchards and greenhouses, fruits, nurseries and vegetables | Caterpillars |
| Cryptolaemus montrouzieri | | | Beneficial insect (Predatory beetle) | Insecticide | | | Citrus, grape, Ornamentals | mealybug, aphids, white flies, soft scales |
| Cuelure | | | Synthetic sex pheromone | Attractant/ Pheromone | | | melon and curcubits | melon fruit fly |
| Cybocephalus nipponicus | | | Beneficial insect (Predatory Beetle) | Insecticide | | | horticulture, forestry and ornamentals | |
| Cydia pomonella (GV) | | | Microbial Baculovirus | Insecticide, virus | | | fruits, forestry | codling moth |
| Cytokinins | | | Botanical | Plant Growth Regulator | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | |
| Dacnusa sibirica | | | Parasitoid | Insecticide | | | Greenhouse crops and nurseries | |
| Delphastus catalinae | | | Beneficial insect (Predatory beetle) | Insecticide | | | Greenhouse crops and sweet potato | sweet potato whitefly and greenhouse whitefly |



| | | | | | | | | |
|----------------------|--|--|---|--------------------------|-----|--|--|--|
| Delphastus pusillus | | | Beneficial insect (Predatory beetle) | Insecticide | | | Greenhouse , fruits and vegetables | sweet potato whitefly and greenhouse whitefly |
| Diallyl sulfide | | | | Fumigant | | | | |
| Dicyphus hesperus | | | Beneficial insect (Predatory bug) | Insecticide | | | vegetables, fruits and ornamentals | white flies |
| Diglyphus isaea | | | Parasitoid | Insecticide | | | Greenhouse tomatoes, chrysanthemum, cucumber, celery, ornamentals | leafminers |
| Disparlure | | | Pheromone | Attractant/ Pheromone | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | gypsy moth |
| Emamectin Benzoate | | | Macrocyclic Lactone | Insecticide | III | | non-food crops | |
| Encarsia formosa | | | Parasitoid | Insecticide | | | Greenhouse cucumbers, peppers and tomatoes | Whiteflies |
| Eretmocerus eremicus | | | Parasitoid | Insecticide | | | sweetpotato | Sweetpotato whiteflies, silverleaf |
| Eretmocerus mundus | | | Parasitoid | Insecticide | | | Greenhouse | Sweetpotato whiteflies |
| Ethoxylated alcohol | | | | Larvicide | | | | mosquito |



| | | | | | | | | |
|--------------------------|--|--|------------------------------------|--------------------------|-----|--|---|--------------------|
| Eugenol | | | Plant derived | Insecticide | | | | |
| Feeding Stimulant | | | | Insect feeding stimulant | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | Lepidoptera larvae |
| Feltiella acarisuga | | | Beneficial insect (Predatory mite) | Insecticide | III | | vegetables and fruits | red spider mite |
| GABA | | | Plant derived | Plant Growth Regulator | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | |
| Galendromus occidentalis | | | Beneficial insect (Predatory mite) | Insecticide | | | tomato, corn, grapes and ornamentals | russet mite |
| Garlic Extract | | | Plant derived | Repellent, Insecticide | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | |



| | | | | | | | | |
|------------------|--|--|------------|------------------------|-----|--|---|--|
| Gibberellic Acid | | | Botanical | Plant Growth Regulator | III | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | |
| Goniozus legneri | | | Parasitoid | Insecticide | | | nuts, fruit trees | navel orangeworm, pink bollworm and codling moth |
| Gossyplure | | | Pheromone | Attractant/ Pheromone | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | pink bollworm |
| Grandlure | | | Pheromone | Attractant/ Pheromone | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | boll weevil |
| Harpin Protein | | | | Plant Growth Regulator | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | |



| | | | | | | | | |
|-------------------------------|--|--|---|-----------------------|--|--|--|---|
| Helicoverpa armigera NVP | | | Baculovirus | Insecticide, Virus | | | vegetables and ornamentals | bollworm, corn earworm, tobacco budworm |
| Helicoverpa zea NPV | | | Baculovirus | Insecticide, Virus | | | vegetables and ornamentals | bollworm, corn earworm, tobacco budworm |
| Heterorhabditis bacteriophora | | | Parasitoid | Insecticide | | | turf, nurseries | black vine weevil and grubs |
| Heterorhabditis megidis | | | Parasitoid | Insecticide | | | horticulture crops and forestry | Vine weevil marvae |
| Heterorhabditis spp. | | | Parasitoid | Insecticide | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | Lepidopterous larvae |
| Hippodamia convergens | | | Beneficial insect (Predatory ladybird) | Insecticide | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | aphids, thrips, whiteflies and other soft bodied insects |



| | | | | | | | | |
|--------------------------------------|----|---------|---------------------------------------|---------------------------------|-----|--|---|--|
| Hypoaspis spp. | | | Beneficial insect (Predatory mite) | Insecticide | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | fungus gnats and soil dwelling insect larvae |
| Indianmeal Moth Granulovirus (IMMGV) | | | Baculovirus | Insecticide | | | stored commodities | Indian meal moth |
| Indole 3-butyric acid | DP | 0.1, 30 | | Plant Growth Regulator | III | | cutting of herbaceous and woody ornamentals | |
| Indole-3-acetic Acid | | | Botanical | Plant Growth Regulator | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | |
| Iron Phosphate | | | Inorganic | Molluscicide | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | slugs and snails |
| Karanjin | | | | Acaricide/Miticide, Insecticide | | | chillies, flowers and vegetables | mites, scales, thrips and whiteflies |



| | | | | | | | | |
|--------------------------|--|--|------------------------------------|------------------------|-----|--|---|--|
| L-cysteine | | | | Plant Growth Regulator | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | |
| Lecanicillium lecanii | | | Microbial Fungus | Insecticide | III | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | aphids, mealy bugs, mites, scales, thrips and whiteflies |
| Leptomastix dactylopii | | | Parasitoid | Insecticide | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | mealybugs |
| Macrolophus caliginosus | | | Beneficial insect (Predatory mite) | Insecticide | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | spider mites and whiteflies |
| Mamestra configurata NPV | | | Baculovirus | Virus | | | non agriculture crops, forestry and nursery | bertha armyworm |



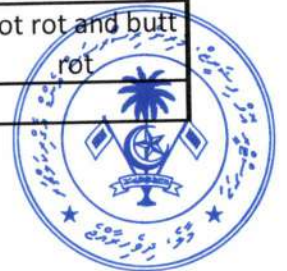
| | | | | | | | | |
|------------------------|--|--|---------------------------------------|---------------------------------|----|--|---|--|
| Mesoseiulus longipes | | | Beneficial insect (Predatory mite) | Insecticide | | | field crops, fruits, ornamentals, trees, | |
| Metaphycus spp. | | | Parasitoid | Insecticide | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | scales |
| Metarhizium anisopliae | | | Fungus | Insecticide | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | black vine weevil, tick, grub, spider mites, whiteflies and thrips |
| Methyl Anthranilate | | | | Repellent | | | | |
| Milbemectin | | | Macrocyclic Lactone | Acaricide/Miticide, Insecticide | II | | citrus, fruit, ornamentals, nurseries, strawberry | red mites, spider mites, two spotted spider mites |
| Muscidifurax spp. | | | Parasitoid | Insecticide | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | flies |



| | | | | | | | | |
|---------------------------|--|--|-----------------------------------|------------------------|--|--|---|---|
| Myrothecium verrucaria | | | Fungus | Nematicide | | | citrus, leafy vegetables, nuts, pineapples, pome fruit, stone fruit | nematodes |
| Natamycin | | | | Fungicide | | | daffodils and ornamentals | basal rot |
| Neem oil | | | Plant derived | Fungicide, Insecticide | | | fruits, melon. Nuts, vegetables, ornamentals | fungal diseases, mites and insect pests |
| Nosema locustae | | | Microsporidian | Insecticide | | | grasshopper nymphs and mormon cricket | |
| Orius insidiosus | | | Beneficial insect (Predatory bug) | Insecticide | | | greenhouse vegetables and ornamentals | thrips |
| Orius spp. | | | Beneficial insect (Predatory bug) | Insecticide | | | greenhouse vegetables and ornamentals | thrips |
| Oxytetracycline | | | | Antibiotic/Bactericide | | | peaches and pears, fruits | bacterial spot and fire blight |
| Paecilomyces fumosoroseus | | | Microbial Fungus | Insecticide | | | ornamental plants | whiteflies, thrips, mites |
| Paecilomyces lilacinus | | | Microbial Fungus | Nematicide | | | banana, pineapple, citrus, vegetables | |



| | | | | | | | | |
|-------------------------------|--|--|------------------|--------------------------|--|--|---|-----------------------|
| Paenibacillus popilliae | | | Bacterium | Insecticide | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | |
| Pantoea agglomerans | | | Microbial Fungus | Fungicide | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | |
| Pediobius foveolatus | | | Parasitoid | Insecticide | | | beans and vegetables | Mexican bean bottle |
| Periplanone B | | | | Attractant/ Pheromone | | | | |
| Phasmarhabditis hermaphrodita | | | Parasitoid | Insecticide | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | Slug |
| Pheromone | | | | Attractant/ Pheromone | | | | |
| Phlebiopsis gigantea | | | Fungus | Fungicide | | | conifers, forest | root rot and butt rot |
| Phytophthora palmivora | | | Fungus | Herbicide | | | | |



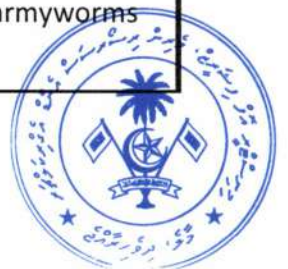
| | | | | | | | | |
|-------------------------|--|--|---------------------------------------|-----------------------------------|-----|--|---|--|
| Phytoseiulus persimilis | | | Beneficial insect (Predatory mite) | Insecticide | | | greenhouse, interiorscapes, tomatoes, strawberries | mites |
| Pine Extracts | | | Botanical | Plant Growth Regulator | | | flowers, fruit, ginger, nurseries, nuts, sugarcane, vegetables | |
| Plant Extract 620 | | | Botanical | Nematicide | III | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | Nematodes |
| Plant Oils | | | Botanical | Fungicide, Herbicide, Insecticide | | | | |
| Podisus maculiventris | | | Beneficial insect (Predatory bug) | Insecticide | | | field crops, fruits, horticultural crops, ornamentals, trees, turf and vegetables | mexican bean beetle, cabbage looper, cabbageworm |
| Polyoxins | | | | Fungicide | III | | golf courses, parks, commercial, industrial ground | |



| | | | | | | | | |
|-------------------------|--|--|--------------------------------------|-------------------------|-----|--|---|--|
| Potassium Bicarbonate | | | | Fungicide | | | fruits, vegetables, herbs and ornamentals | Anthracnose, black spot, botrytis, powdery mildew |
| Pseudomonas chloroaphis | | | Bacterium | Fungicide | | | grass crops | |
| Pseudomonas fluorescens | | | Microbial Bacterium | Fungicide | III | | banana, vegetables, nursery, greenhouse | wilt, root rot, rice blast, sheath blight, downy mildew, powdery mildew, bacterial wilt, fusarium wilt, verticillium wilt, leaf spot, root rot and shoot rot |
| Pseudomonas syringae | | | Microbial Bacterium | Fungicide | | | citrus, pome fruit, seed storage | |
| Rhamnolipid | | | | Fungicide/Biosurfactant | | | | |
| Rhizobia | | | | Inoculant | | | | |
| Rhyzobius lophanthae | | | Beneficial insect (Predatory Beetle) | Insecticide | | | citrus, interiorscapes, ornamentals | scales |
| Rodolia cardinalis | | | Beneficial insect (Predatory Beetle) | Insecticide | | | | |



| | | | | | | | | |
|-----------------------|--------|-------------------|------------------------------|------------------------|-----|-----------|--|---|
| Rumina decollata | | | | Predator | | | fruits, vegetables, herbs and ornamentals | brown garden snails |
| Sabadilla | | | Plant derived | Insecticide | III | | citrus, fruits, vegetables, ornamentals | thrips |
| Seaweed Extract | | | | Plant Growth Regulator | III | | fruit, vegetables, field crops, turf and ornamentals | |
| Spalangia cameroni | | | Parasitoid | Insecticide | | | fruit, vegetables, field crops, turf and ornamentals | |
| Spinosad | SG, SC | 2.5, 22.5, 25, 48 | Spinosyn, Macrocylic Lactone | Insecticide | | Class III | field crop, fruit, nuts , vegetables, ornamentals and turf | lepidoptera, diptera, thysanoptera, coleoptera, fire ants and fruit flies |
| Spodoptera exigua NPV | | | Baculovirus | Insecticide, Virus | | | ornamentals, vegetables, glasshouse crops | armyworms |
| Spodoptera litura NPV | | | Baculovirus | Insecticide, Virus | | | ornamentals, vegetables, glasshouse crops | armyworms |



| | | | | | | | | |
|----------------------------|--|--|---|-------------|--|--|--|---|
| Steinernema carpocapsae | | | Parasitoid | Insecticide | | | fruit, vegetables, field crops, turf and ornamentals | black vine weevil, borers, cutworms, root maggot, rootworms, strawberry weevil, white grubs |
| Steinernema feltiae | | | Parasitoid | Insecticide | | | | |
| Steinernema kraussei | | | Parasitoid | Insecticide | | | | |
| Steinernema riobravis | | | Parasitoid | Insecticide | | | citrus groves and nurseries | larval stages of sugarcane rootstalk borer and bluegreen weevil |
| Steinernema scapterisci | | | Parasitoid | Insecticide | | | turf | mole cricket |
| Stethorus punctillum | | | Beneficial insect (Predatory coccinellid) | Insecticide | | | fruit, vegetables, field crops, turf and ornamentals | red spider mites |
| Streptomyces candidus | | | Microbial Bacterium | Fungicide | | | fruits and vegetables | phytophthora and pythium |
| Streptomyces griseoviridis | | | Microbial Bacterium | Fungicide | | | herbs, vegetables, ornamentals, greenhouse | damping off, seed rot, stem rot, root rot and wilt disease |
| Streptomyces lydicus | | | Microbial Bacterium | Fungicide | | | nurseries and landscape markets | soilborne root rot, damping off |



| | | | | | | | | |
|-------------------------------------|--|--|---------------------|-----------------------------------|-----|--|--|--|
| Streptomyces saraceticus | | | Microbial Bacterium | Nematicide | | | fruit, vegetables, field crops, turf and ornamentals | root knot nematode |
| Streptomycin | | | Microbial | Antibiotic/Bactericide, Fungicide | III | | fruit, vegetables, field crops, turf and ornamentals | bacterial diseases |
| Tea Tree Oil | | | | Fungicide | | | curcurbits, peppers, tomatoes, herbs, | powdery mildew |
| Thripobius semiluteus | | | Parasitoid | Insecticide | | | | |
| Trapping Systems | | | | Trap/Lure | | | fruit, vegetables, field crops, turf and ornamentals | |
| Triaccontanol | | | | Plant Growth Regulator | | | Vegetable and field crops | |
| Trichoderma harzianum | | | Microbial Fungus | Fungicide | | | Vegetable and field crops | root diseases |
| Trichoderma harzianum (strain T-22) | | | Microbial Fungus | Fungicide | | | soil, root, seed | botrytis, cylindrocladium, fusarium, pythium, rhizoctonia, thielaviopsis, powdery mildew |



| | | | | | | | | |
|-------------------------------------|--|--|------------------|-------------|-----|--|---|---|
| Trichoderma harzianum (strain T-39) | | | Microbial Fungus | Fungicide | | | fruit, vegetables, field crops, turf and ornamentals | root diseases and foliar fungal diseases |
| Trichoderma harzianum/polysporum | | | Microbial Fungus | Fungicide | | | fruit, vegetables, field crops, turf and ornamentals | |
| Trichoderma spp. | | | Microbial Fungus | Fungicide | | | fruit, vegetables, field crops, turf and ornamentals | |
| Trichoderma virens | | | Fungus | Fungicide | | | greenhouse plants, ornamentals, vegetable transplants | |
| Trichoderma viride | | | Microbial Fungus | Fungicide | III | | fruit, vegetables, field crops, turf and ornamentals | downy mildew, powdery mildew, fusarium wilt, verticillium wilt, leaf spot, root rot, stem rot |
| Trichogramma ostriniae | | | Parasitoid | Insecticide | | | fruit, vegetables, field crops, turf and ornamentals | european corn borer |



| | | | | | | | | |
|--------------------|--|--|--|------------------------------|-----|--|---|---|
| Trichogramma spp. | | | Parasitoid | Insecticide | | | avocado groves, corn, orchards, tomatoes, other vegetables | moth egg, armyworm, bollworm, caneborer, codling moth, cutworm, fruit worm, leafworm, loopers, lepidopterous pests |
| Trimedlure | | | | Attractant/ Pheromone | | | fruit, vegetables, field crops, turf and ornamentals | Mediterranean fruit fly |
| Validamycin | | | Antibiotic | Fungicide | III | | vegetables, ornamentals, forestry, nursery, greenhouse | rice sheath blight, black scurf, damping off |
| Xylocoris flavipes | | | Beneficial insect (Predatory bug) | Insecticide | | | vegetables, ornamentals, forestry, nursery, greenhouse | |
| Zeatin | | | Plant derived | Plant Growth Regulator | | | fruit, vegetables, field crops, turf and ornamentals | |



Abbreviations

| | | | |
|----|--------------------------|-----|---|
| AB | Grain bait | SC | Suspension concentrate (= flowable concentrate) |
| AE | Aerosol dispenser | SG | Suspo-emulsion |
| BB | Block bait | SL | Soluble concentrate |
| DF | Dry flowable | SP | Water soluble powder |
| DP | Dustable powder | TB | Tablet |
| EC | Emulsifiable concentrate | TC | Technical material |
| EW | Emulsion, Oil in water | TK | Technical concentrate |
| FL | Flowable liquid | UL | Ultra-low volume (ULV) liquid |
| GR | Granule | WG | Water dispersible granules |
| PC | Gel or Paste concentrate | WP | Wettable powder |
| RB | Bait (Ready for use) | WSG | Water soluble granule |

Details of WHO Hazard Classes

| | |
|-----|--|
| Ia | Extremely hazardous |
| Ib | Highly hazardous |
| II | Moderately hazardous |
| III | Slightly hazardous |
| U | Unlikely to present acute hazard in normal use |
| O | Obsolete as pesticide, not classified |
| FM | Fumigant, not classified |

NOTE

Updated on 29.12.2020.

This list is subjected to revision.

