

## Pesticides Registered for Use in Banana in Hawai'i \*\*

| Active Ingredient<br>Product Name                                      | EPA Reg. No.    | Registrant              | Pest(s) (as listed for the specified crop)                       |
|------------------------------------------------------------------------|-----------------|-------------------------|------------------------------------------------------------------|
| <b>Fungicides</b>                                                      |                 |                         |                                                                  |
| <b>Azoxystrobin (FRAC Group 11)</b>                                    |                 |                         |                                                                  |
| <a href="#">AZOXYSTAR</a>                                              | 42750-26        | ALBAUGH, LLC.           | Black sigatoka, Yellow sigatoka                                  |
| <a href="#">AZOXYZONE</a>                                              | 71532-35-91026  | LG LIFE SCIENCE         | Black sigatoka, Yellow sigatoka                                  |
| <a href="#">AZURE AGRICULTURAL FUNGICIDE</a>                           | 228-720         | NUFARM AMERICAS         | Black sigatoka, Yellow sigatoka,<br>Crown rot/Crown mold         |
| <a href="#">ABOUND FLOWABLE FUNGICIDE</a>                              | 100-1098        | SYNGENTA                | Black sigatoka, Yellow sigatoka                                  |
| <a href="#">AFRAME</a>                                                 | 100-1098        | SYNGENTA                | Black sigatoka, Yellow sigatoka                                  |
| <b>Azoxystrobin (FRAC Group 11) + Propiconazole (FRAC Group 3)</b>     |                 |                         |                                                                  |
| <a href="#">EQUATION XL FUNGICIDE</a>                                  | 67760-130       | CHEMINOVA, INC.         | Black sigatoka, Yellow sigatoka                                  |
| <a href="#">AVARIS 2XS</a>                                             | 100-1324-5905   | HELENA CHEMICAL         | Black sigatoka, Yellow sigatoka                                  |
| <a href="#">AFRAME PLUS</a>                                            | 100-1324        | SYNGENTA                | Black sigatoka, Yellow sigatoka                                  |
| <a href="#">QUILT XCEL FUNGICIDE</a>                                   | 100-1324        | SYNGENTA                | Black sigatoka, Yellow sigatoka                                  |
| <b>Bacillus amyloliquefaciens strain D747 (FRAC Group 44)</b>          |                 |                         |                                                                  |
| <a href="#">DOUBLE NICKEL 55</a>                                       | 70051-108       | CERTIS USA, L.L.C.      | Anthracnose, Scab, Bacterial canker, Sigatoka                    |
| <a href="#">DOUBLE NICKEL LC</a>                                       | 70051-107       | CERTIS USA, L.L.C.      | Anthracnose, Scab, Bacterial canker, Sigatoka                    |
| <a href="#">TRIATHLON BA</a>                                           | 70051-107-59807 | OHP, INC.               | Anthracnose, Scab, Bacterial canker, Sigatoka                    |
| <b>Bacillus subtilis GB03 (FRAC Group 44)</b>                          |                 |                         |                                                                  |
| <a href="#">COMPANION LIQUID BIOLOGICAL FUNGICIDE AGRICULTURAL USE</a> | 71065-3         | GROWTH PRODUCTS, LTD.   | Root rot (Pythium), Botrytis, Powdery mildew,<br>Wilt (Fusarium) |
| <b>Bacillus subtilis QST 713 (FRAC Group 44)</b>                       |                 |                         |                                                                  |
| <a href="#">SERENADE ASO</a>                                           | 264-1152        | BAYER CROPSCI           | Sigatoka                                                         |
| <b>Basic copper sulfate (FRAC Group M1)</b>                            |                 |                         |                                                                  |
| <a href="#">BASIC COPPER 50W HB</a>                                    | 42750-168       | ALBAUGH, LLC.           | Sigatoka, Black pitting                                          |
| <a href="#">BASIC COPPER 53</a>                                        | 45002-8         | ALBAUGH, LLC.           | Sigatoka, Black pitting                                          |
| <a href="#">CUPROXAT FLOWABLE COPPER FUNGICIDE</a>                     | 35935-3         | NUFARM LTD.             | Sigatoka, Black pitting                                          |
| <a href="#">CUPROFIX ULTRA 40 DISPERS</a>                              | 70506-201       | UNITED PHOSPHORUS, INC. | Sigatoka, Black pitting                                          |
| <b>Borax</b>                                                           |                 |                         |                                                                  |
| <a href="#">PREV-AM ULTRA</a>                                          | 72662-3         | ORO AGRI, INC.          | Botrytis , Downy mildew, Powdery mildew                          |

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| <b>Copper hydroxide (FRAC Group M1)</b>                            |                |                    |                                                |
| <a href="#">NU-COP 30 HB</a>                                       | 42750-281      | ALBAUGH, LLC.      | Black sigatoka, Yellow sigatoka, Black pitting |
| <a href="#">NU-COP HB</a>                                          | 42750-132      | ALBAUGH, LLC.      | Black sigatoka, Yellow sigatoka, Black pitting |
| <a href="#">KOCIDE 2000</a>                                        | 91411-1-70051  | CERTIS USA, L.L.C. | Black sigatoka, Yellow sigatoka, Black pitting |
| <a href="#">KOCIDE 3000</a>                                        | 91411-2-70051  | CERTIS USA, L.L.C. | Black sigatoka, Yellow sigatoka, Black pitting |
| <a href="#">DUPONT KOCIDE 101 FUNGICIDE/BACTERICIDE (DISC.)</a>    | 352-681        | DUPONT             | Black sigatoka, Yellow sigatoka, Black pitting |
| <a href="#">DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE</a>           | 352-656        | DUPONT             | Black sigatoka, Yellow sigatoka, Black pitting |
| <a href="#">DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE</a>           | 352-662        | DUPONT             | Black sigatoka, Yellow sigatoka, Black pitting |
| <a href="#">DUPONT KOCIDE 4.5LF FUNGICIDE/BACTERICIDE (DISC.)</a>  | 352-684        | DUPONT             | Black sigatoka, Yellow sigatoka, Black pitting |
| <a href="#">DUPONT KOCIDE DF FUNGICIDE/BACTERICIDE (DISC.)</a>     | 352-688        | DUPONT             | Black sigatoka, Yellow sigatoka, Black pitting |
| <a href="#">KENTAN DF</a>                                          | 80289-2        | ISAGRO S.P.A.      | Black sigatoka, Yellow sigatoka, Black pitting |
| <a href="#">CHAMPION++ FUNGICIDE/BACTERICIDE</a>                   | 55146-115      | NUFARM AMERICAS    | Black sigatoka, Yellow sigatoka, Black pitting |
| <a href="#">CHAMP FORMULA 2 FLOWABLE</a>                           | 55146-64       | NUFARM AMERICAS    | Sigatoka, Black pitting                        |
| <a href="#">CHAMP WG AGRICULTURAL FUNGICIDE</a>                    | 55146-1        | NUFARM AMERICAS    | Sigatoka, Black pitting                        |
| <b>Copper hydroxide (FRAC Group M1) + Mancozeb (FRAC Group M3)</b> |                |                    |                                                |
| <a href="#">MANKOCIDE</a>                                          | 91411-7-70051  | CERTIS USA, L.L.C. | Sigatoka                                       |
| <a href="#">DUPONT MANKOCIDE FUNGICIDE/BACTERICIDE</a>             | 352-690        | DUPONT             | Sigatoka                                       |
| <b>Copper sulfate pentahydrate (FRAC Group M1)</b>                 |                |                    |                                                |
| <a href="#">MASTERCOP FUNGICIDE/BACTERICIDE</a>                    | 55272-18-66222 | MAKHTESHIM-AGAN    | Black sigatoka, Yellow sigatoka, Black pitting |
| <b>Copper oxychloride + Copper hydroxide (FRAC Group M1)</b>       |                |                    |                                                |
| <a href="#">BADGE X2</a>                                           | 80289-12-10163 | GOWAN COMPANY      | Black sigatoka, Yellow sigatoka, Black pitting |
| <a href="#">BADGE SC</a>                                           | 80289-3-10163  | GOWAN COMPANY      | Black sigatoka, Yellow sigatoka, Black pitting |
| <a href="#">BADGE SC</a>                                           | 80289-3        | ISAGRO S.P.A.      | Black sigatoka, Yellow sigatoka, Black pitting |
| <a href="#">BADGE X2</a>                                           | 80289-12       | ISAGRO S.P.A.      | Black sigatoka, Yellow sigatoka, Black pitting |
| <b>Fenbuconazole (FRAC Group 3)</b>                                |                |                    |                                                |
| <a href="#">ENABLE 2F FUNGICIDE</a>                                | 62719-416      | DOW AGROSCI.       | Sigatoka                                       |
| <b>Fosetyl-AI (FRAC Group 33)</b>                                  |                |                    |                                                |
| <a href="#">ALIETTE WDG FUNGICIDE</a>                              | 264-516        | BAYER CROPSCI.     | Root disease complex                           |

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| <b>Hydrogen peroxide + peroxyacetic acid</b>                                     |                |                        |                                                                                     |
| <a href="#">OXIDATE 2.0</a>                                                      | 70299-12       | BIOSAFE SYSTEMS        | Sigatoka                                                                            |
| <a href="#">RENDITION</a>                                                        | 68660-14-70051 | CERTIS USA, L.L.C.     | Sigatoka                                                                            |
| <b>Laminarin (FRAC Group P4)</b>                                                 |                |                        |                                                                                     |
| <a href="#">VACCIPLANT</a>                                                       | 83941-2-66330  | ARYSTA LIFESCIENCE     | Anthracnose, bacterial blight, bacterial canker, botrytis fruit rot, scab, sigatoka |
| <b>Mancozeb (FRAC Group M3)</b>                                                  |                |                        |                                                                                     |
| <a href="#">DITHANE M-45 AGRICULTURAL FUNGICIDE</a>                              | 62719-387      | DOW AGROSCI.           | Sigatoka                                                                            |
| <a href="#">DITHANE F-45 RAINSHIELD FUNGICIDE</a>                                | 62719-396      | DOW AGROSCI.           | Sigatoka                                                                            |
| <a href="#">DITHANE DF RAINSHIELD (AGRICULTURAL) FUNGICIDE</a>                   | 62719-402      | DOW AGROSCI.           | Sigatoka                                                                            |
| <a href="#">ROPER DF RAINSHIELD</a>                                              | 34704-1063     | LOVELAND               | Sigatoka                                                                            |
| <a href="#">MANZATE PRO-STICK FUNGICIDE</a>                                      | 70506-234      | UNITED PHOSPHOR.       | Sigatoka                                                                            |
| <a href="#">MANZATE FLOWABLE FUNGICIDE</a>                                       | 70506-236      | UNITED PHOSPHOR.       | Sigatoka                                                                            |
| <a href="#">MANZATE MAX FUNGICIDE</a>                                            | 70506-194      | UNITED PHOSPHOR.       | Sigatoka                                                                            |
| <b>Mineral oil - includes paraffin oil (FRAC Group NC)</b>                       |                |                        |                                                                                     |
| <a href="#">ULTRA-PURE OIL HORTICULTURAL INSECTICIDE, MITICIDE AND FUNGICIDE</a> | 69526-5-499    | BASF                   | Black leaf streak, Black Sigatoka, Yellow Sigatoka                                  |
| <a href="#">SUFFOIL-X</a>                                                        | 48813-1-68539  | BIOWORKS, INC.         | Sigatoka                                                                            |
| <a href="#">TRITEK</a>                                                           | 48813-1        | BRANDT<br>CONSOLIDATED | Sigatoka                                                                            |
| <a href="#">SUNSPRAY ULTRA-FINE SPRAY OIL</a>                                    | 86330-11       | HOLLYFRONTIER          | Yellow sigatoka, Sooty mold fungus                                                  |
| <a href="#">PURESPRAY 10E</a>                                                    | 69526-5        | INTELLIGRO             | Black leaf streak, Black sigatoka, Yellow sigatoka                                  |
| <a href="#">PETRO-CANADA PURESPRAY GREEN</a>                                     | 69526-9        | INTELLIGRO             | Black leaf streak, Black sigatoka, Yellow sigatoka                                  |
| <a href="#">BIOCOVER MLT</a>                                                     | 34704-805      | LOVELAND               | Black leaf streak, Black sigatoka, Yellow sigatoka                                  |
| <a href="#">BIOCOVER UL</a>                                                      | 34704-806      | LOVELAND               | Black leaf streak, Black sigatoka, Yellow sigatoka                                  |
| <a href="#">BIOCOVER SS</a>                                                      | 34704-809      | LOVELAND               | Black leaf streak, Black sigatoka, Yellow sigatoka                                  |
| <a href="#">GLACIAL SPRAY FLUID</a>                                              | 34704-849      | LOVELAND               | Black leaf streak, Black sigatoka, Yellow sigatoka                                  |
| <a href="#">SUPERIOR 70 OIL</a>                                                  | 34704-353      | LOVELAND               | Black leaf streak                                                                   |
| <a href="#">ULTRA-PURE OIL</a>                                                   | 69526-5-499    | WHITEMIRE<br>MICRO-GEN | Black leaf streak, Black sigatoka, Yellow sigatoka                                  |

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| <b>Phosphorous acid (FRAC Group 33)</b>                            |              |                             |                                                                                        |
| <a href="#">FUNGI-PHITE</a>                                        | 83472-1      | PLANT<br>PROTECTANTS        | Suppression: Root rot complex, Sigatoka,<br>Bunch diseases                             |
| <a href="#">FUNGI-PHITE</a>                                        | 73771-5      | VERDESIAN LIFE<br>SCIENCES  | Suppression: Root rot complex, Sigatoka,<br>Bunch diseases                             |
| <b>Neem oil</b>                                                    |              |                             |                                                                                        |
| <a href="#">TRILOGY</a>                                            | 70051-2      | CERTIS USA, L.L.C.          | Diseases, Insects, Mites                                                               |
| <b>Potassium bicarbonate (FRAC Group NC)</b>                       |              |                             |                                                                                        |
| <a href="#">KALIGREEN</a>                                          | 11581-2      | OAT AGRIO CO.               | Powdery mildew                                                                         |
| <b>Propiconazole (FRAC Group 3)</b>                                |              |                             |                                                                                        |
| AMTIDE PROPICONAZOLE 41.8% EC FUNGICIDE                            | 83851-10     | AMTIDE LLC                  | Black sigatoka                                                                         |
| <a href="#">TILT FUNGICIDE</a>                                     | 100-617      | SYNGENTA                    | Black sigatoka                                                                         |
| <b>Propiconazole (FRAC Group 3) + Azoxystrobin (FRAC Group 11)</b> |              |                             |                                                                                        |
| <a href="#">QUILT FUNGICIDE</a>                                    | 100-1178     | SYNGENTA                    | Black sigatoka, Yellow sigatoka                                                        |
| <b>Reynoutria sachalinensis (FRAC Group P)</b>                     |              |                             |                                                                                        |
| <a href="#">REGALIA BIOFUNGICIDE</a>                               | 84059-3      | MARRONE BIO<br>INNOVATIONS. | Anthracnose, Bacterial blight, Bacterial canker,<br>Botrytis fruit rot, Scab, Sigatoka |
| <b>Rhamnolipid biosurfactant</b>                                   |              |                             |                                                                                        |
| <a href="#">ZONIX BIOFUNGICIDE</a>                                 | 72431-1      | JENEIL<br>BIOSURFACTANT     | Zoospores of fungal plant pathogens                                                    |
| <b>Streptomyces lydicus WYEC 108</b>                               |              |                             |                                                                                        |
| <a href="#">ACTINOVATE AG</a>                                      | 73314-1      | NATURAL INDUST.             | Root decay fungi, Soilborne fungi,<br>Foliar fungi (suppression)                       |
| <a href="#">ACTINOVATE AG BIOLOGICAL FUNGICIDE</a>                 | 73314-1      | NOVOZYMES<br>BIOAG, INC.    | Foliar fungi, Soilborne fungi (suppression)                                            |
| <b>Sulfur + Basic copper sulfate (FRAC Group M1)</b>               |              |                             |                                                                                        |
| <a href="#">TOP COP WITH SULFUR</a>                                | 57538-6      | STOLLER                     | Sigatoka                                                                               |
| <b>Sulfur + Tebuconazole (FRAC Group 3)</b>                        |              |                             |                                                                                        |
| <a href="#">UNICORN DF FUNGICIDE</a> (for bagged bananas)          | 70905-2      | SULPHUR MILLS               | Black leaf streak, Yellow sigatoka                                                     |
| <b>Tea tree oil</b>                                                |              |                             |                                                                                        |
| <a href="#">TIMOREX GOLD</a>                                       | 86182-1      | STOCKTON<br>(ISRAEL) LTD.   | Black sigatoka                                                                         |

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| <b>Tebuconazole (FRAC Group 3)</b>                                     |                |                       |                                                                              |
| <a href="#">AMTIDE TEBUCONAZOLE 45WDG FUNGICIDE</a>                    | 83851-4        | AMTIDE LLC            | Black leaf streak, Yellow sigatoka                                           |
| <a href="#">ELITE 45 DF FOLIAR FUNGICIDE (Disc. 2017)</a>              | 264-749        | BAYER CROPSCI.        | Black leaf streak, Yellow sigatoka                                           |
| <b>Yeast extract hydrolysate from <i>Saccharomyces cerevisiae</i></b>  |                |                       |                                                                              |
| <a href="#">KEYPLEX 350</a>                                            | 73512-1        | KEYPLEX               | Plant diseases (prevention aid)                                              |
| <a href="#">KEYPLEX 350 OR</a>                                         | 73512-4        | KEYPLEX               | Plant diseases (prevention aid)                                              |
| <b>Insecticides</b>                                                    |                |                       |                                                                              |
| <b>Azadirachtin/Neem (IRAC Group un)</b>                               |                |                       |                                                                              |
| <a href="#">NIMBIOSYS NEEM OIL</a>                                     | 84181-2        | AHIMSA<br>ALTERNATIVE | Broad spectrum insect control                                                |
| <a href="#">DEBUG TURBO</a>                                            | 70310-5        | AGRO LOGISTIC         | Broad spectrum insect control, Nematodes                                     |
| <a href="#">ECOZIN PLUS 1.2% ME</a>                                    | 5481-559       | AMVAC CHEMICAL        | Broad spectrum insect control, Nematodes                                     |
| <a href="#">AZASOL</a>                                                 | 81899-4-74578  | ARBORJET, INC.        | Broad spectrum insect control                                                |
| <a href="#">MOLT-X BOTANICALLY BASED INSECTICIDE / NEMATICIDE</a>      | 68539-11       | BIOWORKS, INC.        | Broad spectrum insect control, Nematodes                                     |
| <a href="#">AZATROL EC INSECTICIDE</a>                                 | 2217-836       | PBI/GORDON            | Broad spectrum insect control                                                |
| <b>Azadirachtin/Neem (IRAC Group un) (continued)</b>                   |                |                       |                                                                              |
| <a href="#">AZAGUARD BOTANICAL INSECTICIDE/NEMATICIDE</a>              | 70299-17       | BIOSAFE SYSTEMS       | Broad spectrum insect control, Nematodes                                     |
| <a href="#">CRYMAX BIOINSECTICIDE</a>                                  | 70051-86       | CERTIS USA, L.L.C.    | Banana skipper                                                               |
| <a href="#">DELIVER BIOLOGICAL INSECTICIDE</a>                         | 70051-69       | CERTIS USA, L.L.C.    | Caterpillars                                                                 |
| <a href="#">JAVELIN WG BIOLOGICAL INSECTICIDE</a>                      | 70051-66       | CERTIS USA, L.L.C.    | Caterpillars                                                                 |
| <a href="#">TRILOGY</a>                                                | 70051-2        | CERTIS USA, L.L.C.    | Insects, Mites, Diseases                                                     |
| <a href="#">AZA-DIRECT BIOLOGICAL INSECTICIDE</a>                      | 71908-1-10163  | GOWAN                 | Broad spectrum insect control                                                |
| <a href="#">COMPANION LIQUID BIOLOGICAL FUNGICIDE AGRICULTURAL USE</a> | 71065-3        | GROWTH<br>PRODUCTS    |                                                                              |
| <a href="#">AZATIN XL BIOLOGICAL INSECTICIDE</a>                       | 70051-27-59807 | OHP, INC.             | Broad spectrum insect control                                                |
| <a href="#">TERRANEEM EC</a>                                           | 88760-5        | TERRAMERA, INC.       | Broad spectrum insect control, Mites, Nematodes,<br>Powdery mildew, Botrytis |
| <a href="#">DIPEL DF BIOLOGICAL INSECTICIDE DRY FLOWABLE</a>           | 73049-39       | VALENT BIOSCI.        | Caterpillars                                                                 |
| <a href="#">XENTARI BIOLOGICAL INSECTICIDE DRY FLOWABLE</a>            | 73049-40       | VALENT BIOSCI.        | Armyworms, Banana skippers                                                   |

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| <b>Beauveria bassiana</b>                                    |              |                             |                                                                      |
| <a href="#">MYCOTROL O</a>                                   | 82074-3      | LAM INT'L                   | Broad spectrum insect control                                        |
| <a href="#">BOTANIGARD ES</a>                                | 82074-1      | LAM INT'L                   | Broad spectrum insect control,<br>Two-spotted spider mites           |
| <a href="#">BOTANIGARD 22 WP</a>                             | 82074-2      | LAM INT'L                   | Broad spectrum insect control                                        |
| <a href="#">MYCOTROL ESO</a>                                 | 82074-1      | LAM INT'L                   | Broad spectrum insect control,<br>Two-spotted spider mites           |
| <b>Borax (IRAC Group 8)</b>                                  |              |                             |                                                                      |
| <a href="#">PREV-AM ULTRA</a>                                | 72662-3      | ORO AGRI, INC.              | Aphid, Leafhopper, Mite, Thrips, Whitefly                            |
| <b>Buprofezin (IRAC Group 16)</b>                            |              |                             |                                                                      |
| <a href="#">APPLAUD 70DF INSECT GROWTH REGULATOR</a>         | 71711-21     | NICHINO AMERICA             | Leafhoppers, Mealybugs, Scales, Whiteflies                           |
| <a href="#">APPLAUD INSECT GROWTH REGULATOR</a>              | 71711-21     | NICHINO AMERICA             | Leafhoppers, Mealybugs, Scales, Whiteflies                           |
| <b>Canola oil + Garlic oil + Capsicum oleoresin extract</b>  |              |                             |                                                                      |
| <a href="#">CAPTIVA PRIME INSECT REPELLENT / INSECTICIDE</a> | 10163-336    | GOWAN COMPANY               | Broad spectrum insect control, Mites                                 |
| <b>Chromobacterium subtsugae strain PRAA4-1</b>              |              |                             |                                                                      |
| <a href="#">GRANDEVO</a>                                     | 84059-17     | MARRONE BIO<br>INNOVATIONS. | Banana skipper                                                       |
| <b>Hydramethylnon (IRAC Group 20A)</b>                       |              |                             |                                                                      |
| <a href="#">AMDRO PRO FIRE ANT BAIT (BAIT STATIONS ONLY)</a> | 241-322      | BASF                        | Imported fire ant, Native fire ant,<br>Little fire ant (Non-bearing) |
| <b>Imidacloprid (IRAC Group 4A)</b>                          |              |                             |                                                                      |
| <a href="#">AMTIDE IMIDACLOPRID 2F INSECTICIDE</a>           | 83851-12     | AMTIDE LLC                  | Aphids, Leafhoppers, Scales (suppression)                            |
| <a href="#">ADMIRE FLEX 4</a>                                | 264-783      | BAYER CROPSCI.              | Aphids, Leafhoppers, Scales (suppression)                            |
| <a href="#">ADMIRE PRO SYSTEMIC PROTECTANT</a>               | 264-827      | BAYER CROPSCI.              | Aphids, Leafhoppers, Scales (suppression)                            |
| <a href="#">PROVADO 1.6 FLOWABLE INSECTICIDE</a>             | 264-763      | BAYER CROPSCI.              | Aphids, Leafhoppers, Thrips                                          |
| <a href="#">COURAZE 2F INSECTICIDE</a>                       | 67760-91     | CHEMINOVA                   | Aphids, Leafhoppers, Thrips, Scales (suppression)                    |
| <a href="#">COURAZE 4 INSECTICIDE</a>                        | 67760-116    | CHEMINOVA                   | Aphids, Leafhoppers, Thrips, Scales (suppression)                    |
| <a href="#">COURAZE 4F INSECTICIDE (DISC.)</a>               | 67760-97     | CHEMINOVA                   | Aphids, Leafhoppers, Thrips, Scales (suppression)                    |
| <a href="#">MALICE 2F</a>                                    | 34704-893    | LOVELAND                    | Aphids, Leafhoppers, Scales (Suppression)                            |
| <a href="#">SHERPA</a>                                       | 34704-983    | LOVELAND                    | Aphids, Leafhoppers, Thrips                                          |
| <a href="#">WIDOW INSECTICIDE</a>                            | 34704-893    | LOVELAND                    | Aphids, Leafhoppers, Scales (suppression)                            |
| <a href="#">WRANGLER INSECTICIDE</a>                         | 34704-931    | LOVELAND                    | Aphids, Leafhoppers, Thrips, Scales (suppression)                    |

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| <b>Imidacloprid (IRAC Group 4A) (continued)</b>                  |                |                                 |                                                                     |
| <a href="#">ALIAS 2F FLOWABLE INSECTICIDE</a>                    | 66222-203      | MAKHTESHIM-AGAN                 | Aphids, Leafhoppers, Scales (suppression)                           |
| <a href="#">ALIAS 4F</a>                                         | 66222-156      | MAKHTESHIM-AGAN                 | Aphids, Leafhoppers, Scales (suppression)                           |
| <a href="#">MANA ALIAS 4F FLOWABLE INSECTICIDE</a>               | 66222-156      | MAKHTESHIM-AGAN                 | Aphids, Leafhoppers, Thrips, Scales (suppression)                   |
| <a href="#">PASADA 1.6F FLOWABLE INSECTICIDE</a>                 | 66222-228      | MAKHTESHIM-AGAN                 | Aphids, Leafhoppers, Thrips                                         |
| <a href="#">NUPRID 2F INSECTICIDE</a>                            | 228-484        | NUFARM                          | Aphids, Leafhoppers, Scales (suppression)                           |
| <a href="#">NUPRID 2SC SOIL/FOLIAR INSECTICIDE</a>               | 228-572        | NUFARM                          | Aphids, Leafhoppers, Thrips, Scales (suppression)                   |
| <a href="#">NUPRID 4F MAX INSECTICIDE</a>                        | 228-528        | NUFARM                          | Aphids, Leafhoppers, Thrips, Scales (suppression)                   |
| <a href="#">NUPRID 4.6F PRO INSECTICIDE</a>                      | 228-527        | NUFARM                          | Aphids, Leafhoppers, Scales (suppression)                           |
| <a href="#">MONTANA 2F INSECTICIDE</a>                           | 83100-7-83979  | ROTAM N. A.                     | Aphids, Leafhoppers, Whiteflies, Scales (suppression)               |
| <a href="#">MONTANA 4F INSECTICIDE</a>                           | 83100-21-83979 | ROTAM N. A.                     | Aphids, Leafhoppers, Thrips, Scales (suppression)                   |
| <b>Iron phosphate + Spinosad (IRAC Group 5)</b>                  |                |                                 |                                                                     |
| <a href="#">BUG-N-SLUGGO</a>                                     | 67702-24-70051 | CERTIS                          | Ants, Earwigs, Cutworms, Sowbugs, Pillbugs, crickets, Snails, Slugs |
| <b>Kaolin clay</b>                                               |                |                                 |                                                                     |
| <a href="#">SURROUND WP CROP PROTECTANT</a>                      | 61842-18       | TESSENDERLO<br>KERLEY           | Broad spectrum insect control                                       |
| <b>Methyl Eugenol</b>                                            |                |                                 |                                                                     |
| <a href="#">SCENTRY METHYL EUGENOL CONE</a>                      | 36638-41       | SCENTRY<br>BIOLOGICALS          | Oriental fruit fly                                                  |
| <b>Petroleum distillate, oils, solvent, or hydrocarbons</b>      |                |                                 |                                                                     |
| <a href="#">TRITEK</a>                                           | 48813-1        | BRANDT<br>CONSOLIDATED          | Bugs, Leafhoppers, Leafrollers, Scales, Thrips                      |
| <a href="#">SUFFOIL-X</a>                                        | 48813-1-68539  | BIOWORKS                        | Bugs, Leafhoppers, Leafrollers, Scales, Thrips                      |
| <a href="#">SUNSPRAY ULTRA-FINE SPRAY OIL</a>                    | 86330-11       | HOLLYFRONTIER                   | Aphids, Mealybugs, Scales, Whitefly                                 |
| <b>Piperonyl butoxide</b>                                        |                |                                 |                                                                     |
| <a href="#">PBO-8 SYNERGIST</a>                                  | 89459-33       | CENTRAL GARDEN &<br>PET COMPANY | Broad spectrum insect & mite control (synergist)                    |
| <a href="#">SYNERPRO PBO</a>                                     | 53883-258      | CONTROL SOLUTIONS               | Broad spectrum insect & mite control (synergist)                    |
| <b>Piperonyl butoxide + pyrethrins (IRAC Group 3A)</b>           |                |                                 |                                                                     |
| <a href="#">PRESCRIPTION TREATMENT BRAND PYRETH-IT FORMULA 2</a> | 499-475        | WHITMIRE MICRO-<br>GEN          | Broad spectrum insect control                                       |
| <a href="#">PRENTOX PYRONYL CROP SPRAY</a>                       | 655-489        | PRENTISS                        | Broad spectrum insect control                                       |

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| Active Ingredient<br>Product Name                                  | EPA Reg. No.   | Registrant         | Pest(s) (as listed for the specified crop)               |
|--------------------------------------------------------------------|----------------|--------------------|----------------------------------------------------------|
| <b>Piperonyl butoxide + pyrethrins (IRAC Group 3A) (continued)</b> |                |                    |                                                          |
| <a href="#">EVERGREEN CROP PROTECTION EC 60-6</a>                  | 1021-1770      | MGK                | Broad spectrum insect control                            |
| <a href="#">EVERGREEN PRO 60-6</a>                                 | 1021-1770      | MGK                | Broad spectrum insect control                            |
| <b>Potassium salts of fatty acids (insecticidal soap)</b>          |                |                    |                                                          |
| <a href="#">DES-X INSECTICIDAL SOAP CONCENTRATE</a>                | 67702-22-70051 | CERTIS USA, L.L.C. | Broad spectrum insect control                            |
| <a href="#">M-PEDE INSECTICIDE MITICIDE FUNGICIDE</a>              | 10163-324      | GOWAN COMPANY      | Broad spectrum insect control                            |
| <b>Pyrethrins (IRAC Group 3A)</b>                                  |                |                    |                                                          |
| <a href="#">PYGANIC CROP PROTECTION EC 1.4 II</a>                  | 1021-1771      | MGK                | Broad spectrum insect control, eriophyid mites           |
| <a href="#">PYGANIC CROP PROTECTION EC 5.0 II</a>                  | 1021-1772      | MGK                | Broad spectrum insect control, eriophyid mites           |
| <a href="#">PYGANIC SPECIALTY</a>                                  | 1021-1772      | MGK                | Broad spectrum insect control, eriophyid mites           |
| <a href="#">TERSUS INSECTICIDE</a>                                 |                | MGK                | Broad spectrum insect control, eriophyid mites           |
| <b>Pyrethrins (IRAC Group 3A) + Beauveria bassiana</b>             |                |                    |                                                          |
| <a href="#">BOTANIGARD MAXX</a>                                    | 82074-5        | LAM INT'L          | Broad spectrum insect control, Spider mites              |
| <b>Pyriproxyfen (IRAC Group 7C)</b>                                |                |                    |                                                          |
| <a href="#">ESTEEM ANT BAIT—SUPPLEMENTAL LABEL</a>                 | 59639-114      | VALENT U.S.A.      | Imported fire ants, Native fire ant                      |
| <a href="#">KNACK—SUPPLEMENTAL LABEL</a>                           | 59639-95       | VALENT U.S.A.      | Whiteflies                                               |
| <b>Soybean oil + Garlic oil + Capsicum oleoresin extract</b>       |                |                    |                                                          |
| <a href="#">CAPTIVA</a>                                            | 10163-326      | GOWAN COMPANY      | Broad spectrum insect repellent, Mites                   |
| <b>Spinetoram (IRAC Group 5)</b>                                   |                |                    |                                                          |
| <a href="#">DELEGATE WG INSECTICIDE</a>                            | 62719-541      | DOW AGROSCI.       | Caterpillars, Banana rust thrips, Hawaiian flower thrips |
| <b>Spinosad (IRAC Group 5)</b>                                     |                |                    |                                                          |
| <a href="#">SEDUCE INSECT BAIT</a>                                 | 67702-25-70051 | CERTIS USA, L.L.C. | Ants, Cutworms, Earwigs                                  |
| <a href="#">ENTRUST</a>                                            | 62719-282      | DOW AGROSCI.       | Caterpillars, Banana rust thrips, Hawaiian flower thrips |
| <a href="#">CONSERVE SC TURF AND ORNAMENTAL</a>                    | 62719-291      | DOW AGROSCI.       | Caterpillars, Banana rust thrips, Hawaiian flower thrips |
| <a href="#">ENTRUST SC</a>                                         | 62719-621      | DOW AGROSCI.       | Caterpillars, Banana rust thrips, Hawaiian flower thrips |
| <a href="#">SUCCESS</a>                                            | 62719-292      | DOW AGROSCI.       | Caterpillars, Banana rust thrips, Hawaiian flower thrips |



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| Active Ingredient<br>Product Name                        | EPA Reg. No. | Registrant             | Pest(s) (as listed for the specified crop)                                           |
|----------------------------------------------------------|--------------|------------------------|--------------------------------------------------------------------------------------|
| <b>Spirotetramat (IRAC Group 23)</b>                     |              |                        |                                                                                      |
| <a href="#">MOVENTO</a>                                  | 264-1050     | BAYER CROPSCI.         | Aphids                                                                               |
| <b>Sulfur</b>                                            |              |                        |                                                                                      |
| <a href="#">MICRO SULF</a>                               | 55146-75     | NUFARM                 | Mites                                                                                |
| <a href="#">ACOIDAL</a>                                  | 62562-4      | QUIMETAL<br>INDUSTRIAL | Mites                                                                                |
| <a href="#">DEFEND DF</a>                                | 62562-8      | QUIMETAL<br>INDUSTRIAL | Mites                                                                                |
| <a href="#">COSAVET-DF</a>                               | 70905-1      | SULPHUR MILLS          | Mites                                                                                |
| <a href="#">COSAVET-DF EDGE FUNGICIDE-MITICIDE</a>       | 70905-1      | SULPHUR MILLS          | Mites                                                                                |
| <a href="#">MICROTHIOL DISPERSS</a>                      | 70506-187    | UNITED<br>PHOSPHORUS   | Mites                                                                                |
| <b>Herbicides</b>                                        |              |                        |                                                                                      |
| <b>Carfentrazone-ethyl (HRAC Group E; WSSA Group 14)</b> |              |                        |                                                                                      |
| <a href="#">AIM EC HERBICIDE</a>                         | 279-3241     | FMC CORP.              | Broadleaf weeds (selective)                                                          |
| <b>Diquat dibromide (HRAC Group D; WSSA Group 22)</b>    |              |                        |                                                                                      |
| <a href="#">REGLONE DESSICANT</a>                        | 100-1061     | SYNGENTA               | Broad spectrum weed control (Non-bearing)                                            |
| <b>Diuron (HRAC Group C2; WSSA Group 7)</b>              |              |                        |                                                                                      |
| <a href="#">DETERMINE 4L</a>                             | 66222-54     | MAKHTESHIM-AGAN        | Annual weeds, preemergence (selective),<br>Perennial weeds, preemergence (selective) |
| <a href="#">DIREX 4L</a>                                 | 66222-54     | MAKHTESHIM-AGAN        | Annual weeds, preemergence (selective),<br>Perennial weeds, preemergence (selective) |
| <a href="#">DUPONT DIREX 4L HERBICIDE (DISC.)</a>        | 352-678      | DUPONT                 | Annual weeds, preemergence (selective),<br>Perennial weeds, preemergence (selective) |
| <a href="#">DUPONT KARMEX DF HERBICIDE (DISC.)</a>       | 352-692      | DUPONT                 | Annual weeds, preemergence (selective),<br>Perennial weeds, preemergence (selective) |
| <a href="#">DUPONT KARMEX XP HERBICIDE (DISC.)</a>       | 352-692      | DUPONT                 | Annual weeds, preemergence (selective),<br>Perennial weeds, preemergence (selective) |
| <a href="#">ALLIGARE DIURON 80DF</a>                     | 81927-12     | ALLIGARE, LLC          | Annual weeds, preemergence (selective),<br>Perennial weeds, preemergence (selective) |
| <a href="#">DIURON 80 WDG WEED KILLER</a>                | 34704-648    | LOVELAND               | Annual weeds, preemergence (selective),<br>Perennial weeds, preemergence (selective) |
| <a href="#">DIURON 4L HERBICIDE</a>                      | 34704-854    | LOVELAND               | Annual weeds, preemergence (selective),<br>Perennial weeds, preemergence (selective) |
| <a href="#">KARMEX DF</a>                                | 66222-51     | MAKHTESHIM-AGAN        | Annual weeds, preemergence (selective),<br>Perennial weeds, preemergence (selective) |

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| Active Ingredient<br>Product Name                       | EPA Reg. No. | Registrant                | Pest(s) (as listed for the specified crop)                                           |
|---------------------------------------------------------|--------------|---------------------------|--------------------------------------------------------------------------------------|
| <b>Diuron (HRAC Group C2; WSSA Group 7) (continued)</b> |              |                           |                                                                                      |
| <a href="#">PARROT DF</a>                               | 66222-51     | MAKHTESHIM-AGAN           | Annual weeds, preemergence (selective),<br>Perennial weeds, preemergence (selective) |
| <a href="#">PARROT 4L</a>                               | 66222-54     | MAKHTESHIM-AGAN           | Annual weeds, preemergence (selective),<br>Perennial weeds, preemergence (selective) |
| <a href="#">SUPERDI 4L</a>                              | 66222-54     | MAKHTESHIM-AGAN           | Annual weeds, preemergence (selective),<br>Perennial weeds, preemergence (selective) |
| <a href="#">SEKOR 4L</a>                                | 66222-54     | MAKHTESHIM-AGAN           | Annual weeds, preemergence (selective),<br>Perennial weeds, preemergence (selective) |
| <a href="#">DIURON 4L (DISC.)</a>                       | 85678-24     | REDEAGLE<br>INTERNATIONAL | Annual weeds, preemergence (selective),<br>Perennial weeds, preemergence (selective) |
| <a href="#">DIURON 80 WDG (DISC.)</a>                   | 85678-25     | REDEAGLE<br>INTERNATIONAL | Annual weeds, preemergence (selective),<br>Perennial weeds, preemergence (selective) |
| <b>Fluazifop-P-butyl (HRAC Group A; WSSA Group 1)</b>   |              |                           |                                                                                      |
| <a href="#">FUSILADE DX HERBICIDE</a>                   | 100-1070     | SYNGENTA                  | Annual and perennial grass weeds                                                     |
| <b>Glyphosate (HRAC Group G; WSSA Group 9)</b>          |              |                           |                                                                                      |
| <a href="#">GLYPHOSATE 4 PLUS</a>                       | 81927-9      | ALLIGARE, LLC             | Broad spectrum weed control<br>BBTV-infected banana                                  |
| <a href="#">GLYFOS HERBICIDE</a>                        | 4787-31      | CHEMINOVA                 | Broad spectrum weed control<br>BBTV-infected banana                                  |
| <a href="#">GLYFOS X-TRA HERBICIDE</a>                  | 4787-23      | CHEMINOVA                 | Broad spectrum weed control                                                          |
| <a href="#">WYNCA USA SUNPHOSATE 41% HERBICIDE</a>      | 87659-3      | CINMAX INT'L              | Broad spectrum weed control<br>BBTV-infected banana                                  |
| <a href="#">ERASER A/P HERBICIDE</a>                    | 53883-266    | CONTROL SOLUTIONS         | Broad spectrum weed control<br>BBTV-infected banana                                  |
| <a href="#">DURAMAX</a>                                 | 62719-556    | DOW AGROSCI.              | Broad spectrum weed control<br>BBTV-infected banana                                  |
| <a href="#">DURANGO DMA</a>                             | 62719-556    | DOW AGROSCI.              | Broad spectrum weed control<br>BBTV-infected banana                                  |
| <a href="#">GLYPHOMAX XRT</a>                           | 62719-517    | DOW AGROSCI.              | Broad spectrum weed control<br>BBTV-infected banana                                  |
| <a href="#">FOUR POWER PLUS</a>                         | 34704-890    | LOVELAND                  | Broad spectrum weed control<br>BBTV-infected banana                                  |
| <a href="#">MAD DOG</a>                                 | 34704-889    | LOVELAND                  | Broad spectrum weed control                                                          |
| <a href="#">MAD DOG 5.4#</a>                            | 34704-929    | LOVELAND                  | Broad spectrum weed control<br>BBTV-infected banana                                  |
| <a href="#">MAD DOG PLUS</a>                            | 34704-890    | LOVELAND                  | Broad spectrum weed control<br>BBTV-infected banana                                  |
| <a href="#">MAKAZE</a>                                  | 34704-890    | LOVELAND                  | Broad spectrum weed control<br>BBTV-infected banana                                  |

## Pesticides Registered for Use in Banana in Hawai'i \*\*

| Active Ingredient<br>Product Name                                                                     | EPA Reg. No.   | Registrant                 | Pest(s) (as listed for the specified crop)           |
|-------------------------------------------------------------------------------------------------------|----------------|----------------------------|------------------------------------------------------|
| <b>Glyphosate (HRAC Group G; WSSA Group 9) (continued)</b>                                            |                |                            |                                                      |
| <a href="#">GLYPHOGAN HERBICIDE</a>                                                                   | 66222-105      | MAKHTESHIM-AGAN            | Broad spectrum weed control<br>BBTV-infected banana  |
| <a href="#">QUALI-PRO GLYPHOSATE T&amp;O</a>                                                          | 66222-208      | MAKHTESHIM-AGAN            | Broad spectrum weed control                          |
| <a href="#">HONCHO HERBICIDE (DISC.)</a>                                                              | 524-445        | MONSANTO                   | Broad spectrum weed control                          |
| <a href="#">HONCHO K6 HERBICIDE</a>                                                                   | 524-539        | MONSANTO                   | Broad spectrum weed control                          |
| <a href="#">HONCHO PLUS HERBICIDE</a>                                                                 | 524-454        | MONSANTO                   | Broad spectrum weed control<br>BBTV-infected banana  |
| <a href="#">MON 866 HERBICIDE</a>                                                                     | 524-544        | MONSANTO                   | Broad spectrum weed control<br>BBTV-infected banana  |
| <a href="#">ROUNDUP POWERMAX HERBICIDE</a>                                                            | 524-549        | MONSANTO                   | Broad spectrum weed control<br>BBTV-infected banana  |
| <a href="#">ROUNDUP ULTRAMAX HERBICIDE</a>                                                            | 524-512        | MONSANTO                   | Broad spectrum weed control<br>BBTV-infected banana  |
| <a href="#">ROUNDUP WEATHERMAX HERBICIDE</a>                                                          | 524-537        | MONSANTO                   | Broad spectrum weed control,<br>BBTV-infected banana |
| <a href="#">CREDIT 41 EXTRA NON-SELECTIVE HERBICIDE</a>                                               | 71368-20       | NUFARM                     | Broad spectrum weed control                          |
| <a href="#">CREDIT 41 NON-SELECTIVE HERBICIDE</a>                                                     | 71368-20       | NUFARM                     | Broad spectrum weed control                          |
| <a href="#">CREDIT XTREME HERBICIDE</a>                                                               | 71368-81       | NUFARM                     | Broad spectrum weed control<br>BBTV-infected banana  |
| <a href="#">NUFARM CREDIT EXTRA (DISC.)</a>                                                           | 71368-65       | NUFARM                     | Broad spectrum weed control                          |
| <a href="#">FARMWORKS 41% GLYPHOSATE GRASS &amp; WEED KILLER</a>                                      | 84009-12       | RAGAN & MASSEY,<br>INC.    | Broad spectrum weed control<br>BBTV-infected banana  |
| <a href="#">FARMWORKS 41% GLYPHOSATE PLUS CONCENTRATE WITH<br/>SURFACTANT GRASS &amp; WEED KILLER</a> | 86068-4-84009  | RAGAN & MASSEY,<br>INC.    | Broad spectrum weed control<br>BBTV-infected banana  |
| <a href="#">TOUCHDOWN TOTAL HERBICIDE</a>                                                             | 100-1169       | SYNGENTA                   | Broad spectrum weed control                          |
| <a href="#">TOUCHDOWN HITECH</a>                                                                      | 100-1182       | SYNGENTA                   | Broad spectrum weed control                          |
| <a href="#">GLYPHOSATE PLUS (DISC.)</a>                                                               | 83520-7        | TACOMA AG                  | Broad spectrum weed control<br>BBTV-infected banana  |
| <a href="#">GLYPHO 41 HERBICIDE (DISC.)</a>                                                           | 70506-226      | UNITED<br>PHOSPHORUS       | Broad spectrum weed control<br>BBTV-infected banana  |
| <a href="#">HI-YIELD SUPER CONCENTRATE KILL-ZALL II HERBICIDE</a>                                     | 19713-526-7401 | VOLUNTARY<br>PURCHASING    | Broad spectrum weed control                          |
| <a href="#">CORNERSTONE 5 PLUS</a>                                                                    | 1381-241       | WINFIELD<br>SOLUTIONS, LLC | Broad spectrum weed control<br>BBTV-infected banana  |
| <b>Nonanoic acid (HRAC Group Z; WSSA Group 27)</b>                                                    |                |                            |                                                      |
| <a href="#">SCYTHE HERBICIDE</a>                                                                      | 10163-325      | GOWAN                      | Broad spectrum weed control                          |

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| Active Ingredient<br>Product Name                                                                     | EPA Reg. No. | Registrant                                | Pest(s) (as listed for the specified crop)                                        |
|-------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------|-----------------------------------------------------------------------------------|
| <b>Paraquat dichloride (HRAC Group D; WSSA Group 22)</b>                                              |              |                                           |                                                                                   |
| <a href="#">FIRESTORM *</a>                                                                           | 82557-1-400  | MACDERMID AG SOLUTIONS, INC.              | Broad spectrum weed control                                                       |
| <a href="#">BONEDRY *</a>                                                                             | 82557-1      | SINON USA                                 | Broad spectrum weed control                                                       |
| <a href="#">GRAMOXONE INTEON *</a>                                                                    | 100-1217     | SYNGENTA                                  | Broad spectrum weed control                                                       |
| <a href="#">GRAMOXONE SL * (DISC.)</a>                                                                | 100-1217     | SYNGENTA                                  | Broad spectrum weed control                                                       |
| <a href="#">GRAMOXONE SL 2.0 *</a>                                                                    | 100-1431     | SYNGENTA                                  | Broad spectrum weed control                                                       |
| <b>Paraquat dichloride (HRAC Group D; WSSA Group 22) (continued)</b>                                  |              |                                           |                                                                                   |
| <a href="#">CYCLONE SL 2.0 *</a>                                                                      | 100-1431     | SYNGENTA                                  | Broad spectrum weed control                                                       |
| <a href="#">FIRESTORM *</a>                                                                           | 82557-1-400  | CHEMTURA                                  | Broad spectrum weed control                                                       |
| <b>Trifluralin (HRAC Group K1; WSSA Group 3) + Isoxaben (HRAC Group L; WSSA Group 21)</b>             |              |                                           |                                                                                   |
| <a href="#">SNAPSHOT 2.5 TG (NON-BEARING ONLY)</a>                                                    | 62719-175    | DOW AGROSCIE.                             | Broadleaf weeds, preemergence (selective), Annual grass, preemergence (selective) |
| <a href="#">SNAPSHOT DG (NON-BEARING ONLY)</a>                                                        | 62719-175    | DOW AGROSCIE.                             | Broadleaf weeds, preemergence (selective), Annual grass, preemergence (selective) |
| <b>Nematicides/Fumigants</b>                                                                          |              |                                           |                                                                                   |
| <b>Ethoprop</b>                                                                                       |              |                                           |                                                                                   |
| <a href="#">MOCAP 15% GRANULAR NEMATICIDE-INSECTICIDE *</a>                                           | 5481-9040    | AMVAC CHEMICAL CORP.                      | Nematodes, Banana root borer                                                      |
| <a href="#">MOCAP NEMATICIDE-INSECTICIDE MOCAP 15% GRANULAR LOCK 'N' LOAD CLOSED LOADING SYSTEM *</a> | 5481-9040    | AMVAC CHEMICAL CORP.                      | Nematodes, Banana root borer                                                      |
| <a href="#">MOCAP 15% GRANULAR LOCK N' LOAD *</a>                                                     | 264-457      | BAYER CROPS SCIENCE LP                    | Nematodes, Banana root borer                                                      |
| <a href="#">MOCAP 15% GRANULAR NEMATICIDE INSECTICIDE *</a>                                           | 264-457      | BAYER CROPS SCIENCE LP                    | Nematodes, Banana root borer                                                      |
| <b>Harpin alpha beta protein</b>                                                                      |              |                                           |                                                                                   |
| <a href="#">EMPLOY</a>                                                                                | 71771-3      | PLANT HEALTH CARE INC.                    | Enhance growth and yield                                                          |
| <b>Paecilomyces lilacinus strain 251 (A filamentous fungus)</b>                                       |              |                                           |                                                                                   |
| <a href="#">MELOCON WG BIOLOGICAL NEMATICIDE</a>                                                      | 72444-2      | PROPHYTA BIOLOGISCHER PFLANZENSCHUTZ GMBH | Nematodes (suppression)                                                           |

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| Active Ingredient<br>Product Name                               | EPA Reg. No.   | Registrant              | Pest(s) (as listed for the specified crop)                   |
|-----------------------------------------------------------------|----------------|-------------------------|--------------------------------------------------------------|
| <b>Molluscicides</b>                                            |                |                         |                                                              |
| <b>Iron phosphate</b>                                           |                |                         |                                                              |
| <a href="#">FERROXX AQ</a>                                      | 67702-49       | W. NEUDORFF             | Snails, Slugs                                                |
| <b>Iron phosphate + Spinosad (IRAC Group 5)</b>                 |                |                         |                                                              |
| <a href="#">BUG-N-SLUGGO</a>                                    | 67702-24-70051 | CERTIS                  | Snails, Slugs                                                |
| <b>Regulators</b>                                               |                |                         |                                                              |
| <b>Cytokinin (as kinetin)</b>                                   |                |                         |                                                              |
| <a href="#">X-CYTE</a>                                          | 57538-15       | STOLLER<br>ENTERPRISES. | Reduce stress                                                |
| <a href="#">FOLIAR TRIGRRR PLANT GROWTH REGULATORS</a>          | 51517-4        | WESTBRIDGE AG           | Improve uniformity and size, flowering and fruit set         |
| <b>Cytokinins + Gibberellic acid + Indole-3-butyric acid</b>    |                |                         |                                                              |
| <a href="#">RECEPTOR</a>                                        | 5905-594       | HELENA CHEMICAL<br>CO.  | Increase fertilizer efficacy, enhance growth and development |
| <a href="#">STIMULATE YIELD ENHANCER</a>                        | 57538-13       | STOLLER<br>ENTERPRISES  | Enhance growth and development                               |
| <b>Gibberellic acid</b>                                         |                |                         |                                                              |
| <a href="#">N-LARGE</a>                                         | 57538-18       | STOLLER<br>ENTERPRISES  | Extend storage life                                          |
| <a href="#">N-LARGE PREMIER</a>                                 | 57538-20       | STOLLER<br>ENTERPRISES  | Stimulate plant growth, reduce stress effects                |
| <a href="#">PROGIBB LV PLUS PLANT GROWTH REGULATOR SOLUTION</a> | 73049-498      | VALENT BIOSCIENCES      | Stimulate plant growth, reduce stress effects                |
| <b>Post-harvest</b>                                             |                |                         |                                                              |
| <b>Ethanol</b>                                                  |                |                         |                                                              |
| <a href="#">ETHY-GEN II CONCENTRATE</a>                         | 37433-1        | CATALYTIC<br>GENERATORS | Accelerate ripening                                          |
| <b>1-Methylcyclopropene</b>                                     |                |                         |                                                              |
| <a href="#">RIPELOCK TABS 2.0</a>                               | 71297-10       | AGROFRESH, INC.         | Counteracts ethylene effects                                 |
| <a href="#">SMARTFRESH</a>                                      | 71297-2        | AGROFRESH, INC.         | Counteracts ethylene effects                                 |
| <a href="#">SMARTFRESH PRO TABS</a>                             | 71297-10       | AGROFRESH, INC.         | Counteracts ethylene effects                                 |
| <a href="#">SMARTFRESH SMARTTABS</a>                            | 71297-3        | AGROFRESH, INC.         | Counteracts ethylene effects                                 |

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| Active Ingredient<br>Product Name                 | EPA Reg. No. | Registrant     | Pest(s) (as listed for the specified crop) |
|---------------------------------------------------|--------------|----------------|--------------------------------------------|
| <b>Peroxyacetic acid + Hydrogen peroxide</b>      |              |                |                                            |
| <a href="#">ECOLAB TSUNAMI 100</a>                | 1677-164     | ECOLAB, INC.   | Deterioration/spoilage microorganisms      |
| <a href="#">VIGOROX 15 F&amp;V</a>                | 65402-3      | FMC CORP.      | Deterioration/spoilage microorganisms      |
| <a href="#">VIGOROX 15/10 ANTIMICROBIAL AGENT</a> | 65402-9      | FMC CORP.      | Deterioration/spoilage microorganisms      |
| <a href="#">VIGOROX LS-15</a>                     | 65402-3      | FMC CORP.      | Deterioration/spoilage microorganisms      |
| <a href="#">VIGOROX 15 F&amp;V</a>                | 65402-3      | FMC CORP.      | Deterioration/spoilage microorganisms      |
| <a href="#">VIGOROX 15/10 ANTIMICROBIAL AGENT</a> | 65402-9      | FMC CORP.      | Deterioration/spoilage microorganisms      |
| <a href="#">VIGOROX SP-15 ANTIMICROBIAL AGENT</a> | 65402-3      | PEROXYCHEM LLC | Deterioration/spoilage microorganisms      |

\* Product names followed by a single asterisk (\*) are classified as **RESTRICTED USE PESTICIDES**. These products can only be distributed and sold by Licensed Distributors and only to Certified Applicators certified in the appropriate category.

### \*\*Attention. . .

Information in this report does not constitute a label replacement or a recommendation. Before applying any pesticide, applicators must determine if the product under consideration is correct for the intended use site. Always read the container/package label to determine if the intended use site is included on the label.

### READ AND FOLLOW LABEL INSTRUCTIONS BEFORE PURCHASING AND USING ANY PESTICIDE PRODUCT.

Label images provided by the [Hawai'i Department of Agriculture Pesticides Branch](#);

Label site and chemical searches made possible by the [National Pesticide Information Retrieval System \(NPIRS\)](#) at Purdue University.

**If any label hyperlinks in this document have changed or become obsolete, go to either of the two websites at the hyperlinks, above, to search for labels for pesticide products licensed for distribution in the State of Hawai'i.**

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