**APPENDIX 1-4: Tank Mixes Specified on Malathion Product Labels**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ingredient: Malathion (057701) | | | | | |  |  |  |
| Current As of Date: 09/23/2015 |  |  |  |  |  |  |  |  |

| **#** | **EPA Reg. No** | **Product Name** | **Co-formulated With…** | **Stamped Label Date** | **Pg. of PDF** | **Tank Mix Type of Statement** |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | 4-99 | Malathion 50% EC | n/a | 9/20/2012 | 9 | For the mosquitocide application: "Mix… in 1 gallon of water or oil-based carrier (such as kerosene, fuel oil, or diesel oil)." |
| 2 | 4-122 | Bonide A Complete Fruit Tree Spray | Carbaryl Captan | 10/2/2012 | n/a | Home garden product. No specific tank mix statements found. |
| 3 | 4-412 | Bonide Malathion Insect Spray | n/a | 10/23/2012 | n/a | Outdoor residential product. Label instructions say to dilute with water. |
| 4 | 239-739 | Ortho Malathion 50 Insect Spray | n/a | 5/23/2011 | 4 5    7 | Label instructions say to dilute with water. "Ortho RosePride Rose and Shrub Disease Control (or other EPA-registered product labeled for control of diseases on roses) may be mixed with this product when listed insect(s) and diseases are found on roses. Follow directions and precautions on both labels." "FRUITS - USE IN COMBINATION WITH VOLCK OIL SPRAY." |
| 5 | 829-175 | SA-50 Brand Malathion-oil Citrus & Ornamental Spray | Mineral oil | 6/15/2010 | 4 | Label instructions say to dilute with water. |
| 6 | 829-282 | SA-50 Malathion 50% E.C. | n/a | 1/25/2013 | multiple | Label instructions say to dilute with water. |
| 7 | 1015-69 | Max Kill dustacide 6 | n/a | 6/29/2011 | n/a | Dust product to protect un-infested grain. Tank mix language n/a. |
| 8 | 3862-28 | Malathion Fogging Spray | n/a | 2/13/2012 | n/a | No related statements. |
| 9 | 4787-5 | Fyfanon Technical | n/a | n/a | n/a | n/a |
| 10 | 5905-112 | Fyfanon ULV Concentrate Insecticide | n/a | 6/28/2010 | n/a | No related statements. |
| 11 | 5905-196 | Fyafanon Malathion Insecticide | n/a | 8/29/2012 | n/a | No related statements. |
| 12 | 5905-250 | Fyfanon 8 lb emulsion | n/a | 6/6/2012 | 4 | APPLICATION THROUGH IRRIGATION SYSTEMS - CHEMIGATION section: "Do not tank mix this product with other pesticides surfactants or fertilizers unless prior use has shown the combination non-injurious under your conditions of use." |
| 13 | 7401-10 | Hi-Yield 55% Malathion | n/a | 5/23/2012 | n/a | Outdoor residential product. Label instructions say to dilute with water. |
| 14 | 9779-5 | Malathion 50% EC | n/a | 5/20/2012 | n/a | Label instructions say to dilute with water. |
| 15 | 10088-56 | Malathion 57% | n/a | 12/1/2010 | 1 | For the mosquitocide application "OIL SOLUTION": "1 part concentrate to 28 parts of a mixture consisting of 4 parts kerosene to 1 part toluene..." |
| 16 | 10163-21 | Malathion 8 | n/a | 4/16/2014 | 5    12 | In Mixing Directions: only specifies addition of water. "Do not combine with wettable powders unless previous use of the mixture has proven physically compatible and safe to plants. Always thoroughly emulsify this product with at least half of total water before adding wettable powders." Applications through chemigation section: "This product should not be tank-mixed with other pesticides, surfactants or fertilizers unless prior use has shown the combination non-injurious under your conditions of use. Follow precautionary statements and directions for all tank-mix products." |
| 17 | 19713-217 | Drexel Malathion 5EC | n/a | 11/25/2014 | 5 | Applications through chemigation section: "This product should not be tank-mixed with other pesticides, surfactants or fertilizers unless prior use has shown the combination non-injurious under your conditions of use. Follow precautionary statements and directions for all tank-mix products." |
| 18 | 19713-288 | Drexel Malathion ULV Insecticide | n/a | 4/9/2014 | n/a | No related statements. |
| 19 | 19713-304 | Green Devil Spray | n/a | 10/13/2011 | n/a | No related statements. |
| 20 | 19713-330 | Drexel Malathion 50% Emulsifiable | n/a | 9/19/2014 | n/a | No related statements. |
| 21 | 19713-402 | Drexel Malathion Technical | n/a | n/a | n/a | Technical product. No related statements. |
| 22 | 19713-540 | Drexel Malathion ULV 96.5% | n/a | 4/9/2014 | n/a | No related statements. |
| 23 | 28293-123 | Unicorn Malathion Spray 1 | n/a | 10/23/2012 | n/a | No related statements. |
| 24 | 33955-394 | Acme Malathion 50% Spray | n/a | 9/13/2012 | 6 | Mosquitoes: "Mix 11 tablespoons of product per gallon of water, fuel oil, or diesel oil." |
| 25 | 34704-108 | Malathion 57 EC | n/a | 4/13/2011 | 4   5 | "Do not combine emulsifiable liquids with wettable powders in the same spray tank unless previous use of the materials being combined has proven them to be physically compatible." Chemigation: "This product should not be tank-mixed with other pesticides, surfactants, or fertilizers unless prior use has shown the combination non-injurious under your conditions of use. Follow precautionary statements and directions for all tank-mixed products." |
| 26 | 34704-452 | Malathion 8E Insecticide | n/a | 2/23/2011 | 5    16 | Chemigation: "This product should not be tank-mixed with other pesticides, surfactants, or fertilizers unless prior use has shown the combination non-injurious under your conditions of use. Follow precautionary statements and directions for all tank-mixed products." Mosquito control: "This product can be mixed with a synergized pyrethrin emulsifiable concentration (such as 6% pyrethrin + 60% PBO) in accordance with the most restrictive of label limitations and precautions indicated on both this and the tank-mixed product." |
| 27 | 34704-474 | Malathion 8 Aquatmul | n/a | 9/16/2015 | 4   6    25 | Chemigation: "Do not tank mix this product with other pesticides, surfactants or fertilizers unless prior use has shown the combination non-injurious under your conditions of use. Follow precautionary statements and direction for all tank-mixed products." Applications: For the treatment of dried fruit beetle and vinegar flies in figs mix "2.0 pts [malathion] plus 2.0 gals unsulfurized molasses as a bait spray". For treatment of fruit flies in guava, mango, and passion fruit mix "0.75 pt [malathion] + 1.0 lb partially hydrolyzed yeast protein or enzymatic yeast hydrolyzate." Mosquito control: "This product can be mixed with a synergized pyrethrin emulsifiable concentrate (such as 6% pyrethrin + 60% PBO) in accordance with the most restrictive of label limitations and precautions indicated on both this and the tank-mixed product. Label rates must not be exceeded. This product may not be mixed with any product bearing a label which specifically prohibits such mixing. Prior to tank mixing large quantities, mix a small amount in a glass jar to verify that the products are physically compatible. Depending on your operation needs, the amount of synergized pyrethrin can be reduced or adjusted. Application rates of this product and droplet distribution requirements remain the same as for this product used alone." |
| 28 | 34704-565 | Clean Crop Malathion ULV Concentrate Insecticide | n/a | 2/23/2011 | n/a | No related statements. |
| 29 | 34704-787 | Malathion Technical | n/a | 3/29/2010 | n/a | n/a |
| 30 | 45385-43 | Chem-Tox Mal 50% EC | n/a | 12/30/2003 | n/a | No related statements. |
| 31 | 45385-65 | Chem-Tox Malathion 3% | n/a | 4/17/2009 | n/a | No related statements. |
| 32 | 45385-66 | Chem-Tox Mal 50-OS | n/a | 4/17/2009 | 1 | "An oil soluble malathion concentrate containing 4.5 lbs of malathion active ingredient per gallon. For formulating thermal fogging and mist spraying oils for mosquito control work and outdoor application." Fly Control: "Dilute this concentrate 1 part to 22 parts No. 2 fuel oil to make a 3% ready-to-use spray." Mosquito Control: "Apply a 3% to 5% Malathion in fuel oil at a rate of 1/2 lb actual malathion a.i. per acre". |
| 33 | 46515-19 | Super K-Gro Malathion 50 Insect Spray | n/a | 6/21/2011 | 2 | "In a tank sprayer, mix the specified amounts of this product in water until the spray mixture is uniform." |
| 34 | 47000-107 | Prozap Malathion 57% Emulsifiable Liquid Insecticide-B | n/a | 3/29/2010 | 4   8 10 10  10 12 | "Do not combine emulsifiable liquids with wettable powders in the same spray tank unless previous use of the materials being combined has proven them to be physically compatible." Pasture and Rangeland: "Use 1 pint in 1 gallon fuel oil as a ULV spray per acre." Mosquitos: "1 part to 28 parts water, fuel oil or diesel oil." Restrictions: "Avoid applying oil based formulations to valuable ornamental plants as injury may occur." Grasshoppers: "ULV Application: 1.2 - 1 pints in 1 gallon of diesel fuel oil per acre." Chemigation: "This product should not be tank-mixed with other pesticides, surfactants or fertilizers unless prior use has shown the combination non-injurious under your conditions of use. Follow precautionary statements and directions for all tank-mixed products." |
| 35 | 66330-220 | Malathion 5 EC | n/a | 9/27/2012 | 4 | "Do not combine emulsifiable liquids with wettable powders in the same spray tank unless previous use of the materials being combined has proven them to be physically compatible." |
| 36 | 67760-34 | Fyfanon ULV Mosquito | n/a | 6/13/2011 | 5 | "\*There is a great variation in the chemical composition of fuel oils which may be used as thermal fog solvents. These differences may cause sludge and/or affect the solubility of the Fyfanon ULV Mosquito." |
| 37 | 67760-35 | Fyfanon ULV AG | n/a | 7/30/2012 | 9 | "Fyfanon ULV AG can by mixed with a synergized pyrethrin emulsifiable concentrate (6% pyrethrin + 60% PBO) in accordance with the most restrictive label limitations and precautions indicated on both this and the tank-mixed product. Label rates must not be exceeded. This product may not be mixed with any product bearing a label which specifically prohibits such mixing. Prior to tank mixing large quantities mix a small amount in a glass jar to verify that the products are physically compatible... Depending on your operational needs for knock-down, the amount of synergized pyrethrin can be reduced or adjusted. Application rates of Fyfanon ULV AG and droplet distribution requirements remain the same as for Fyfanon ULV AG used alone." |
| 38 | 67760-40 | Fyfanon 57% EC | n/a | 11/7/2011 | 11  12 | For use on guava, mango, passion fruit: "Apply with 1 lb partially hydrolyzed yeast protein or enzymatic yeast hydrolyzate." For use on nectarines: "May be mixed with spray oil for dormant and delayed dormant applications. Follow spray oil manufacturer's directions." |
| 39 | 67760-108 | Fyfanon Plus ULV | gamma-cyhalthrin | 12/10/2010 | 7 | Agricultural Crop Use: "Dilute Fyfanon PLUS ULV in once-refined cottonseed or vegetable oil sufficient to make at least one quart of finished spray per acre." |
| 40 | 67760-119 | Cheminova Malathion 57% Low VOC | n/a | 2/21/2013 | 11  12 | For use on guava, mango, passion fruit: "Apply with 1 lb partially hydrolyzed yeast protein or enzymatic yeast hydrolyzate." For use on nectarines: "May be mixed with spray oil for dormant and delayed dormant applications. Follow spray oil manufacturer's |
| 41 | 67760-131 | Malathion 851 g/L + Gamma-Cyhalothrin 12.8 g/L EC | gamma-cyhalthrin | 2/23/2015 | 8         9 | Mixing directions: "Malathion 851 g/L + Gamma-cyhalothrin 12.8 g/L EC is compatible with insecticides, miticides, and fungicides and non-pressure fertilizer solutions commonly recommended, except for alkaline materials such as Bordeaux mixture lime. It is always recommended that a small jar compatibility test be run prior to tank mixing. Prepare tank mixtures in the same manner as recommended above for use of Malathion 851 g/L + Gamma-cyhalothrin 12.8 g/L EC alone. When tank mixing with herbicides, add wettable powders first, flowable second, and emulsifiable concentrates last. When a fertilizer solution is involved, it is strongly recommended that a fertilizer pesticide compatibility agent such as Unite or Compex be used." Chemigation: "As local recommendations differ, consult your local State Extension Service or other local experts for recommendations on adjuvant or diluent types (See Tank Mix Application), rates, and mixing instructions. These recommendations should be proven, through university and extension field trials, to be effective with Declare applied by chemigation." |
| 42 | 84009-6 | Malathion-5 Emulsifiable Concentrate | n/a | 9/21/2010 | 4   11 | "Do not combine emulsifiable liquids with wettable powders in the same spray tank unless previous use of the materials being combined has proven them to be physically compatible." Mosquito control: "For a 2% spray, dilute 1 part Malathion-5 EC with 28 parts of water, fuel oil, or diesel oil. For a 5% spray, dilute 1 part Malathion-5 EC with 11 parts of water, fuel oil, or diesel oil." |
| 43 | 89459-36 | Prentox 5 lb Malathion Spray | n/a | 7/22/2011 | 5 | Chemigation: "Do not tank mix this product with other pesticides, surfactants or fertilizers unless prior use has shown the combination non-injurious under your conditions of use. Follow precautionary statements and direction for all tank-mixed products." |