

## **APPENDIX 4**

### **LIST OF HIGH-VOC, LOW-VOC, AND EXCLUDED NON-FUMIGANT PRODUCTS**

Department of Pesticide Regulation  
Nonfumigant volatile organic compound (VOC) regulations  
Product list (updated April 8, 2022)

The Department of Pesticide Regulation's (DPR's) nonfumigant VOC regulations (Title 3 California Code of Regulations (3 CCR) sections 6452.2, 6558, 6577, 6880, 6881, 6883, 6884 and 6886) include sales and use restrictions for certain agricultural use products containing any of the following pesticides as the primary active ingredient provided certain criteria are met.

<b>Primary Active Ingredient</b>	<b>Emission Potential (EP) Threshold (%)</b>
Abamectin	35
Chlorpyrifos	25
Gibberellins	25
Oxyfluorfen	15

If a product contains more than one active ingredient, the primary active ingredient is the one present at the highest percentage in a product. These criteria do not apply to products that contain an active ingredient listed above, but not as the primary active ingredient, including products with one or more active ingredients present at the same percentage.

The emission potential (EP) is an estimate of the product VOC content and is normally determined by the registrant using thermogravimetric analysis, with the test results reviewed and approved by DPR.

Products labeled only for non-agricultural uses are excluded from the regulations. Non-agricultural uses include:

a) home use; b) use in structural pest control; c) industrial or institutional use; d) control of an animal pest under the written prescription of a veterinarian; or e) vector control. All other uses are considered agricultural.

DPR classifies products containing any of the four pesticides into three groups:

**High-VOC product:** a) contains any of the four pesticides as a primary active ingredient; and b) labeled for agricultural use; and c) the EP is greater than the threshold.

**Low-VOC product:** a) contains any of the four pesticides as a primary active ingredient; and b) labeled for agricultural use; and c) the EP is equal to or less than the threshold.

**Excluded product:** a) contains any of the four pesticides, but not as a primary active ingredient; or b) labeled only for non-agricultural use.

The nonfumigant VOC restrictions only apply to high-VOC products. Low-VOC products or excluded products have no restrictions.

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Actively registered products containing **abamectin**. Products are listed in order by EP. Products marked “NEW” indicate a change from the last list. If a product was only recently registered or has an inactive registration it may not appear on the list below. Agricultural products with inactive registrations are considered high-VOC unless they are listed below as low-VOC, formulated as a solid (e.g., powder, granule), or meet the criteria for excluded products.

**Low-VOC Abamectin Products, EP ≤ 35.0%**

Product Name	Registration Number	Registrant	Formulation	EP (%)
Abacide 2	7946-27-AA	J.J. Mauget Co.	Solution/Liquid	0.00
Abacide 2 HP	7946-30-AA	J.J. Mauget Co.	Solution/Liquid	0.00
Wipe Out	90326-1-AA	B & K Distributors	Solution/Liquid	3.00
Clinch Ant Bait	100-894-ZB	Syngenta Crop Protection, LLC	Granular/Flake	3.70
Advance 375A Granular Ant Bait	499-370-ZD	BASF Corporation	Granular/Flake	3.70
Willowood Abamectin Granular Ant Bait	83923-14-AA	Ensysyex IV, Inc.	Granular/Flake	3.70
Willowood Abamectin 0.7SC	87290-36-AA	Willowood, LLC	Liquid Concentrate	4.62
Avert DF Dry Flowable Cockroach Bait	499-294-ZB	BASF Corporation	Dry Flowable	5.55
Divanem	100-1611-AA	Syngenta Crop Protection, LLC	Suspension	5.63
Agri-Mek SC Miticide/Insecticide	100-1351-ZA	Syngenta Crop Protection, LLC	Suspension	5.63
Epi-Mek SCL	100-1439-AA	Syngenta Crop Protection, LLC	Liquid Concentrate	6.48
Willowood Abamectin 0.15LV	87290-68-AA	Willowood, LLC	Emulsifiable Concentrate	7.61
Abacus V6	83100-59-AA-83979	Rotam North America, Inc.	Emulsifiable Concentrate	12.06
Abamex Miticide/Insecticide	228-734-AA	Nufarm Americas Inc.	Liquid Concentrate	24.10
Minx 2 Miticide/Insecticide	228-736-AA	Nufarm Americas Inc.	Liquid Concentrate	24.10
Enterik 0.15 LV	91234-51-AA	Atticus, LLC	Emulsifiable Concentrate	27.26
Abacus V	83100-32-AA-83979	Rotam North America, Inc.	Emulsifiable Concentrate	27.26
Tide Timectin 0.15EC Nematicide	84229-2-ZB	Tide International, USA, Inc.	Emulsifiable Concentrate	29.75
Timectin 0.15 EC Ag Insecticide/Miticide	84229-2-AA	Tide International, USA, Inc.	Emulsifiable Concentrate	29.75
Timectin 0.15 EC T&O Insecticide/Miticide	84229-1-AA	Tide International, USA, Inc.	Emulsifiable Concentrate	29.75
Reaper Clearform	34704-1078-ZA	Loveland Products Inc.	Emulsifiable Concentrate	31.08
Abba Ultra Miticide/Insecticide	5481-621-AA	AMVAC Chemical Corporation	Emulsifiable Concentrate	34.18

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**High-VOC Abamectin Products, EP > 35.0%**

Product Name	Registration Number	Registrant	Formulation	EP (%)
Abamectin 0.15EC Select	89442-20-AA	Prime Source, LLC.	Emulsifiable Concentrate	46.70
Aracinate	74779-1-AA	Rainbow Treecare Scientific Advancements	Other (Liquid)	55.10
Ardent 0.15 EC Miticide/Insecticide	100-896-ZC	Syngenta Crop Protection, LLC	Emulsifiable Concentrate	55.10
Avid 0.15 EC Miticide/Insecticide	100-896-ZD	Syngenta Crop Protection, LLC	Emulsifiable Concentrate	55.10
Abacus Agricultural Miticide/Insecticide	83100-4-AA-83979	Rotam North America, Inc.	Emulsifiable Concentrate	60.54
Lucid Ornamental Miticide/Insecticide	83100-5-AA-83979	Rotam North America, Inc.	Emulsifiable Concentrate	60.54
Avensis Insecticide/Miticide	5481-627-AA	AMVAC Chemical Corporation	Emulsifiable Concentrate	62.62
Quali-Pro Abamectin 0.15 EC	53883-371-AA	Control Solutions, Inc.	Emulsifiable Concentrate	62.62
Quali-Pro Todal	53883-410-AA	Control Solutions, Inc.	Emulsifiable Concentrate	62.62
Reaper 0.15 EC	34704-923-AA	Loveland Products, Inc.	Emulsifiable Concentrate	73.33
Reaper Advance	34704-923-ZA	Loveland Products, Inc.	Emulsifiable Concentrate	73.33
Aim A Abamectin	88050-3-AA	SmartVet USA, Inc.	Solution/Liquid	98.00

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Actively registered products containing **chlorpyrifos**. Products are listed in order by EP. Products marked “NEW” indicate a change from the last list. If a product was only recently registered or has an inactive registration, it may not appear on the list below. Agricultural products with inactive registration are considered high-VOC unless they are listed below as low-VOC, formulated as a solid (e.g., powder, granule), or meet the criteria for excluded products.

Additionally, certain inactive products are subject to the restrictions outlined in the Notice of Use & Sale Conditions for Chlorpyrifos Products (Notice), dated October 9, 2019. As of December 31, 2020, possession and use of certain chlorpyrifos products by any person in California is prohibited. To view the Notice and list of products, please visit DPR’s Final Requirements for Chlorpyrifos Web page at <[https://www.cdpr.ca.gov/docs/chlorpyrifos/pdf/general\\_notice\\_append\\_o.pdf](https://www.cdpr.ca.gov/docs/chlorpyrifos/pdf/general_notice_append_o.pdf)>.

**Low-VOC Chlorpyrifos Products, EP ≤ 25.0%**

Product Name	Registration Number	Registrant	Formulation	EP (%)
Durashield CS Controlled Release Insecticide	499-419-ZC	BASF Corporation	Microencapsulated	0.00
Lorsban 50W In Water Soluble Packets	62719-221-ZA	Dow AgroSciences LLC	Wettable Powder	3.03
Rainbow Fire Ant & Insect Killer	13283-14-ZA	Rainbow Technology Corporation	Granular/Flake	3.70
Andersons Golf Products Insecticide III	9198-167-AA	The Andersons, Inc.	Granular/Flake	3.70
Drexel Chlorpyrifos 15G	19713-505-AA	Drexel Chemical Company	Granular/Flake	3.70
Lorsban 15G Granular Insecticide	62719-34-ZA	Dow AgroSciences LLC	Granular/Flake	5.33

**High-VOC Chlorpyrifos Products, EP > 25.0%**

Product Name	Registration Number	Registrant	Formulation	EP (%)
Duraplex TR Total Release Insecticide	499-405-ZA	BASF Corporation	Pressurized Liquid	100.0

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Actively registered products containing **gibberellins**. Products are listed in order by EP. Products marked “NEW” indicate a change from the last list. If a product was only recently registered or has an inactive registration it may not appear on the list below. Agricultural products with inactive registrations are considered high-VOC unless they are listed below as low-VOC, formulated as a solid (e.g., powder, granule), or meet the criteria for excluded products.

**Low-VOC Gibberellins Products, EP ≤ 25.0%**

Product Name	Registration Number	Registrant	Formulation	EP (%)
Gibgro 20% Powder	55146-53-ZA	Nufarm Americas Inc. AGT Division	Dust/Powder	0.00
Stimulate Yield Enhancer	57538-13-AA	Stoller Enterprises, Inc.	Liquid Concentrate	0.12
Novagib 5L	62097-47-AA-82917	Fine Americas, Inc.	Liquid Concentrate	0.39
Falgro 20SP	62097-3-AA-82917	Fine Americas, Inc.	Soluble Powder	1.15
Falgro OD	62097-49-AA-82917	Fine Americas, Inc.	Emulsifiable Concentrate	1.41
GA3 20%	90866-14-AA	CH Biotech R&D Co., Ltd. C/O CH Biotech, LLC	Wettable Powder	3.03
Provide 10SG	73049-409-AA	Valent Biosciences LLC	Granular/Flake	3.70
Progibb 40% Plant Growth Regulator Water Soluble Granule	73049-1-ZA	Valent Biosciences LLC.	Granular/Flake	3.70
Progibb 40PH Post Harvest Plant Growth Regulator	73049-492-AA	Valent Biosciences LLC	Granular/Flake	3.70
X-Pand	57538-63-AA	Stoller Enterprises, Inc.	Liquid Concentrate	4.72
Progibb LV Plus Plant Growth Regulator Solution	73049-498-AA	Valent Biosciences LLC	Liquid Concentrate	11.54
Gibbmax	69766-1-AA	Advanced Foliar Nutrients Systems	Other (Liquid)	16.63
Falgro 2X LV	62097-32-AA-82917	Fine Americas, Inc.	Liquid Concentrate	22.95

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**High-VOC Gibberellins Products, EP > 25.0%**

Product Name	Registration Number	Registrant	Formulation	EP (%)
N-Large Premier	57538-20-AA	Stoller Enterprises, Inc.	Liquid Concentrate	79.02
GA3 4%	90866-10-AA	CH Biotech R&D Co., Ltd. C/O CH Biotech, LLC	Liquid Concentrate	92.36
Falgro 4L	62097-2-AA-82917	Fine Americas, Inc.	Liquid Concentrate	93.82
Florgib 4L	62097-10-AA-82917	Fine Americas, Inc.	Liquid Concentrate	93.82
Pro-Gibb 4% Plant Growth Regulator Solution	73049-15-AA	Valent Biosciences LLC	Liquid Concentrate	94.13
Progibb T & O Plant Growth Regulator (PGR) Solution	73049-15-ZA	Valent Biosciences LLC	Liquid Concentrate	94.13
Progibb TVO Plant Growth Regulator Solution	73049-15-ZB	Valent Biosciences LLC	Liquid Concentrate	94.13
Gibgro 4LS	55146-62-ZA	Nufarm Americas Inc. AGT Division	Flowable Concentrate	94.87
Chrysal BVB	72992-10-AA	Chrysal International BV	Liquid Concentrate	95.30
Fascination Plant Growth Regulator (PGR)	73049-41-ZA	Valent Biosciences LLC.	Liquid Concentrate	95.58
Promalin Plant Growth Regulator Solution	73049-41-AA	Valent Biosciences LLC	Liquid Concentrate	95.58
Fresco	62097-6-ZA-82917	Fine Americas, Inc.	Liquid Concentrate	95.85
Perlan	62097-6-AA-82917	Fine Americas, Inc.	Liquid Concentrate	95.85

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Actively registered products containing **oxyfluorfen**. Products are listed in order by EP. Products marked “NEW” indicate a change from the last list. If a product was only recently registered or has an inactive registration it may not appear on the list below. Agricultural products with inactive registrations are considered high-VOC unless they are listed below as low-VOC, formulated as a solid (e.g., powder, granule), or meet the criteria for excluded products.

**Low-VOC Oxyfluorfen Products, EP ≤ 15%**

Product Name	Registration Number	Registrant	Formulation	EP (%)
Galigan H2O	66222-140-AA	Makhteshim-Agan of North America D/B/A Adama	Liquid Concentrate	1.64
Nufarm Double O SPC Herbicide	228-632-AA	Nufarm Americas, Inc.	Granular/Flake	3.70
Biathlon Ornamental Herbicide	59807-12-AA	OHP Inc.	Granular/Flake	3.70
NEW Scrollovr	91234-228-AA	Atticus, LLC	Liquid Concentrate	5.86
Willowood Oxyflo 4 SC	87290-10-AA	Willowood, LLC	Liquid Concentrate	6.76
GoalTender Herbicide	92894-3-AA-71368	Nufarm, Inc.	Flowable Concentrate	8.28
Rout Ornamental Herbicide	58185-27-ZA	Everiss NA, Inc.	Granular/Flake	8.60
Pindar GT	62719-611-AA	Dow Agrosciences LLC	Suspension	10.60
Cleantraxx	62719-702-AA	Dow Agrosciences LLC	Suspension	10.60
Oxystar 4L	42750-199-AA	Albaugh, LLC.	Emulsifiable Concentrate	10.63

**High-VOC Oxyfluorfen Products, EP > 15.0%**

Product Name	Registration Number	Registrant	Formulation	EP (%)
Goldilox 2E Herbicide	87769-3-AA-84237	Solera ATO, LLC	Emulsifiable Concentrate	32.85
NEW Scroll 2 XL	91234-226-AA	Atticus, LLC	Emulsifiable Concentrate	37.67
Willowood Oxyflo 2 EC	87290-8-AA	Willowood, LLC	Emulsifiable Concentrate	60.00
Goal 2XL Herbicide	92894-2-AA-71368	Nufarm, Inc.	Emulsifiable Concentrate	62.30
Collide Herbicide	70506-295-AA	United Phosphorous, Inc.	Emulsifiable Concentrate	66.08
Galigan 2E Herbicide	66222-28-ZA	Makhteshim-Agan of North America	Emulsifiable Concentrate	66.15
Galigan 2E	66222-28-ZB	Makhteshim-Agan of North America D/B/A Adama	Emulsifiable Concentrate	66.15
Oxystar 2E	42750-136-AA	Albaugh, LLC	Emulsifiable Concentrate	73.09
Govee	89167-90-AA-89391	Innvictis Crop Care, LLC	Liquid Concentrate	73.09