

Commodity	Parts per million
Berry, low growing, subgroup 13-07G .....	1
<i>Brassica</i> , leafy greens, subgroup 4-16B .....	50
Bushberry subgroup 13-07B .....	5
Cherry subgroup 12-12A .....	2
Cotton, gin byproducts .....	7
Cottonseed subgroup 20C .....	0.4
Fruit, citrus, group 10-10 .....	1
Fruit, citrus, group 10-10, oil .....	30
Fruit, pome, group 11-10 .....	0.2
Nut, tree, group 14-12 .....	0.07
Onion, bulb, subgroup 3-07A .....	0.2
Onion, green, subgroup 3-07B .....	2
Pea and bean, succulent shelled, subgroup 6B .....	0.1
Peach subgroup 12-12B .....	1
Plum, prune, dried .....	1
Plum subgroup 12-12C .....	0.6
Sorghum, grain, forage .....	1.5
Sorghum, grain, grain .....	3
Sorghum, grain, stover .....	10
Sunflower subgroup 20B .....	0.5
Vegetable, <i>Brassica</i> , head and stem, group 5-16 .....	3
Vegetable, leaves of root and tuber, group 2 .....	10
Vegetable, legume, edible podded, subgroup 6A .....	1
Vegetable, root, subgroup 1A .....	0.5

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**ENVIRONMENTAL PROTECTION AGENCY**

**40 CFR Part 180**

[EPA-HQ-OPP-2018-0127; FRL-9997-00]

**Propiconazole; Pesticide Tolerances**

**AGENCY:** Environmental Protection Agency (EPA).

**ACTION:** Final rule.

**SUMMARY:** This regulation establishes tolerances for residues of propiconazole in or on multiple commodities which are identified and discussed later in this

document. Interregional Research Project No. 4 (IR-4) requested these tolerances under the Federal Food, Drug, and Cosmetic Act (FFDCA).

**DATES:** This regulation is effective August 12, 2019. Objections and requests for hearings must be received on or before October 11, 2019, and must be filed in accordance with the instructions provided in 40 CFR part 178 (see also Unit I.C. of the **SUPPLEMENTARY INFORMATION**).

**ADDRESSES:** The docket for this action, identified by docket identification (ID) number EPA-HQ-OPP-2018-0127, is available at <http://www.regulations.gov> or at the Office of Pesticide Programs Regulatory Public Docket (OPP Docket) in the Environmental Protection Agency Docket Center (EPA/DC), West William

Jefferson Clinton Bldg., Rm. 3334, 1301 Constitution Ave. NW, Washington, DC 20460-0001. The Public Reading Room is open from 8:30 a.m. to 4:30 p.m., Monday through Friday, excluding legal holidays. The telephone number for the Public Reading Room is (202) 566-1744, and the telephone number for the OPP Docket is (703) 305-5805. Please review the visitor instructions and additional information about the docket available at <http://www.epa.gov/dockets>.

**FOR FURTHER INFORMATION CONTACT:** Michael Goodis, Registration Division (7505P), Office of Pesticide Programs, Environmental Protection Agency, 1200 Pennsylvania Ave. NW, Washington, DC 20460-0001; main telephone number: (703) 305-7090; email address: [RDfRNtices@epa.gov](mailto:RDfRNtices@epa.gov).

**SUPPLEMENTARY INFORMATION:****I. General Information***A. Does this action apply to me?*

You may be potentially affected by this action if you are an agricultural producer, food manufacturer, or pesticide manufacturer. The following list of North American Industrial Classification System (NAICS) codes is not intended to be exhaustive, but rather provides a guide to help readers determine whether this document applies to them. Potentially affected entities may include:

- Crop production (NAICS code 111.112).
- Animal production (NAICS code 311).
- Food manufacturing (NAICS code 311).
- Pesticide manufacturing (NAICS code 32532).

*B. How can I get electronic access to other related information?*

You may access a frequently updated electronic version of EPA's tolerance regulations at 40 CFR part 180 through the Government Publishing Office's e-CFR site at [http://www.ecfr.gov/cgi-bin/text-idx?&c=ecfr&tpl=/ecfrbrowse/Title40/40tab\\_02.tpl](http://www.ecfr.gov/cgi-bin/text-idx?&c=ecfr&tpl=/ecfrbrowse/Title40/40tab_02.tpl).

*C. How can I file an objection or hearing request?*

Under FFDCA section 408(g), 21 U.S.C. 346a, any person may file an objection to any aspect of this regulation and may also request a hearing on those objections. You must file your objection or request a hearing on this regulation in accordance with the instructions provided in 40 CFR part 178. To ensure proper receipt by EPA, you must identify docket ID number EPA-HQ-OPP-2018-0127 in the subject line on the first page of your submission. All objections and requests for a hearing must be in writing, and must be received by the Hearing Clerk on or before October 11, 2019. Addresses for mail and hand delivery of objections and hearing requests are provided in 40 CFR 178.25(b).

In addition to filing an objection or hearing request with the Hearing Clerk as described in 40 CFR part 178, please submit a copy of the filing (excluding any Confidential Business Information (CBI)) for inclusion in the public docket. Information not marked confidential pursuant to 40 CFR part 2 may be disclosed publicly by EPA without prior notice. Submit the non-CBI copy of your objection or hearing request, identified by docket ID number EPA-HQ-OPP-2018-0127, by one of the following methods:

- *Federal eRulemaking Portal:* <http://www.regulations.gov>. Follow the online instructions for submitting comments.

Do not submit electronically any information you consider to be CBI or other information whose disclosure is restricted by statute.

- *Mail:* OPP Docket, Environmental Protection Agency Docket Center (EPA/DC), (28221T), 1200 Pennsylvania Ave. NW, Washington, DC 20460-0001.

- *Hand Delivery:* To make special arrangements for hand delivery or delivery of boxed information, please follow the instructions at <http://www.epa.gov/dockets/contacts.html>.

Additional instructions on commenting or visiting the docket, along with more information about dockets generally, is available at <http://www.epa.gov/dockets>.

**II. Summary of Petitioned-for Tolerance**

In the **Federal Register** of July 24, 2018 (83 FR 34968) (FRL-9980-31), EPA issued a document pursuant to FFDCA section 408(d)(3), 21 U.S.C. 346a(d)(3), announcing the filing of a pesticide petition (PP 8E8658) by Interregional Research Project No. 4 (IR-4), Rutgers, The State University of New Jersey, 500 College Road East, Suite 201W, Princeton, NJ 08540. The petition requested that 40 CFR 180.434 be amended by establishing tolerances for residues of the fungicide propiconazole, 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl] methyl]-1H-1,2,4-triazol, and its metabolites determined as 2,4-dichlorobenzoic acid (2,4-DCBA), expressed as the stoichiometric equivalent of propiconazole, in or on the following raw agricultural commodities: Avocado at 0.2 parts per million (ppm); *Brassica*, leafy greens, subgroup 4-16B, except watercress at 20 ppm; Celtnuce at 5.0 ppm; Florence fennel at 5.0 ppm; Leaf petiole vegetable subgroup 22B at 5.0 ppm; Swiss chard at 5.0 ppm, Tomato subgroup 8-10A at 3.0 ppm and Vegetable, root, except sugar beet, subgroup 1B at 0.30 ppm. The petition also requested to remove the established tolerances for residues of propiconazole, including its metabolites and degradates, in or on the raw agricultural commodities: Beet, garden, roots at 0.30 ppm; *Brassica* leafy greens, subgroup 5B at 20 ppm; Carrot, roots at 0.25 ppm; Leaf petioles subgroup 4B at 5.0 ppm; Pistachio at 0.1 ppm; Radish, roots at 0.04 ppm; and Tomato at 3.0 ppm. In addition, the petition requested to amend 180.434(b) *Section 18 emergency exemption* by removing the established time-limited tolerance for residues of propiconazole and its metabolites in or on avocado at 10 ppm. That document referenced a summary of

the petition prepared by Interregional Research Project No. 4 (IR-4), the registrant, which is available in the docket, <http://www.regulations.gov>. There were no comments received in response to the notice of filing.

Based upon review of the data supporting the petition, EPA is establishing, in accordance with section 408(d)(4)(a)(i), tolerances that vary in some respects from what the petitioner requested. These variations and the Agency's underlying rationale for those variations are explained in Unit IV.C.

**III. Aggregate Risk Assessment and Determination of Safety**

Section 408(b)(2)(A)(i) of FFDCA allows EPA to establish a tolerance (the legal limit for a pesticide chemical residue in or on a food) only if EPA determines that the tolerance is "safe." Section 408(b)(2)(A)(ii) of FFDCA defines "safe" to mean that "there is a reasonable certainty that no harm will result from aggregate exposure to the pesticide chemical residue, including all anticipated dietary exposures and all other exposures for which there is reliable information." This includes exposure through drinking water and in residential settings, but does not include occupational exposure. Section 408(b)(2)(C) of FFDCA requires EPA to give special consideration to exposure of infants and children to the pesticide chemical residue in establishing a tolerance and to "ensure that there is a reasonable certainty that no harm will result to infants and children from aggregate exposure to the pesticide chemical residue . . . ."

Consistent with FFDCA section 408(b)(2)(D), and the factors specified in FFDCA section 408(b)(2)(D), EPA has reviewed the available scientific data and other relevant information in support of this action. EPA has sufficient data to assess the hazards of and to make a determination on aggregate exposure for propiconazole including exposure resulting from the tolerances established by this action. EPA's assessment of exposures and risks associated with propiconazole follows.

*A. Toxicological Profile*

EPA has evaluated the available toxicity data and considered their validity, completeness, and reliability as well as the relationship of the results of the studies to human risk. EPA has also considered available information concerning the variability of the sensitivities of major identifiable subgroups of consumers, including infants and children.

The primary target organ for propiconazole toxicity in animals is the

liver. Increased liver weights were seen in mice after subchronic or chronic oral exposures to propiconazole. Liver lesions, including effects such as vacuolation of hepatocytes, ballooned liver cells, foci of enlarged hepatocytes, hypertrophy and necrosis, are characteristic of propiconazole toxicity in rats and mice. Decreased body weight gain was also seen in subchronic, chronic, developmental and reproductive studies in animal studies. Dogs appeared to be more sensitive to the localized toxicity of propiconazole as manifested by stomach irritations at 6 mg/kg/day and above.

In rabbits, developmental toxicity occurred at a higher dose than the maternally toxic dose, while in rats, developmental toxicity occurred at lower doses than maternal toxic doses. Increased incidences of rudimentary ribs occurred in rat and rabbit fetuses. Increased cleft palate malformations were noted in two studies in rats. In one published study in rats, developmental effects (malformations of the lung and kidneys, incomplete ossification of the skull, caudal vertebrae and digits, extra rib (14th rib) and missing sternbrae) were reported at doses that were not maternally toxic. In the 2-generation reproduction study in rats, offspring toxicity occurred at a higher dose than the parental toxic dose suggesting lower susceptibility of the offspring to the toxic doses of propiconazole.

The acute neurotoxicity study produced severe clinical signs of toxicity (decreased activity, cold, pale, decreased motor activity, etc.) in rats at the high dose of 300 mg/kg. Limited clinical signs (piloerection, diarrhea, tip toe gait) were observed in the mid-dose animals (100 mg/kg), while no treatment related signs were observed at 30 mg/kg. A subchronic neurotoxicity study in rats did not produce neurotoxic signs at the highest dose tested that was associated with decreased body weight.

Propiconazole was negative for mutagenicity in the *in vitro* BALB/3T3

cell transformation assay, bacterial reverse mutation assay, Chinese hamster bone marrow chromosomal aberration assay, unscheduled DNA synthesis studies in human fibroblasts and primary rat hepatocytes, mitotic gene conversion assay and the dominant lethal assay in mice. It caused proliferative changes in the rat liver with or without pretreatment with an initiator, like phenobarbital, a known liver tumor promoter. Liver enzyme induction studies with propiconazole in mice demonstrated that propiconazole is a strong phenobarbital type inducer of xenobiotic metabolizing enzymes. Hepatocellular proliferation studies in mice suggest that propiconazole induces cell proliferation followed by treatment-related hypertrophy in a manner similar to the known hypertrophic agent phenobarbital.

Propiconazole was carcinogenic to CD-1 male mice, producing hepatocarcinomas in male mice at doses in excess of levels that induced liver toxicity, including the chronic RfD. At doses at or below the RfD, liver toxicity and carcinogenicity are not expected to occur; therefore, the Agency used the Reference Dose (RfD) approach for assessing cancer risk. Propiconazole was not carcinogenic to rats or to female mice.

Propiconazole showed no significant toxicity in a battery of acute toxicity tests (Toxicity Category III or IV in all tests except eye irritation (II)). It is slightly irritating to the skin and is a dermal sensitizer.

Specific information on the studies received and the nature of the adverse effects caused by propiconazole as well as the no-observed-adverse-effect-level (NOAEL) and the lowest-observed-adverse-effect-level (LOAEL) from the toxicity studies can be found at <http://www.regulations.gov> in the document titled "Propiconazole Human Health Risk Assessment for the New Use of Propiconazole on Avocado, along with Conversion to Brassica, leafy greens,

subgroup 4–16B, except watercress, Leaf petiole vegetable subgroup 22B, Celtuce, Florence fennel, Swiss chard, and the expansion to Vegetable, root, except sugar beet, subgroup 1B" at pages 15–20 in docket ID number EPA-HQ-OPP-2018-0127.

#### B. Toxicological Points of Departure/ Levels of Concern

Once a pesticide's toxicological profile is determined, EPA identifies toxicological points of departure (POD) and levels of concern to use in evaluating the risk posed by human exposure to the pesticide. For hazards that have a threshold below which there is no appreciable risk, the toxicological POD is used as the basis for derivation of reference values for risk assessment. PODs are developed based on a careful analysis of the doses in each toxicological study to determine the dose at which no adverse effects are observed (the NOAEL) and the lowest dose at which adverse effects of concern are identified (the LOAEL). Uncertainty/safety factors are used in conjunction with the POD to calculate a safe exposure level—generally referred to as a population-adjusted dose (PAD) or a reference dose (RfD)—and a safe margin of exposure (MOE). For non-threshold risks, the Agency assumes that any amount of exposure will lead to some degree of risk. Thus, the Agency estimates risk in terms of the probability of an occurrence of the adverse effect expected in a lifetime. For more information on the general principles EPA uses in risk characterization and a complete description of the risk assessment process, see <http://www2.epa.gov/pesticide-science-and-assessing-pesticide-risks/assessing-human-health-risk-pesticides>.

A summary of the toxicological endpoints for propiconazole used for human risk assessment is shown in Table 1 of this unit.

TABLE 1—SUMMARY OF TOXICOLOGICAL DOSES AND ENDPOINTS FOR PROPICONAZOLE FOR USE IN HUMAN HEALTH RISK ASSESSMENT

Exposure/scenario	Point of departure and uncertainty/safety factors	RfD, PAD, LOC for risk assessment	Study and toxicological effects
Acute dietary (General population including infants and children).	NOAEL = 30 mg/kg/day UFA = 10x UF <sub>H</sub> = 10x FQPA SF = 1x	Acute RfD = 0.3 mg/kg/day. aPAD = 0.3 mg/kg/day	Acute Neurotoxicity Study—Rat. LOAEL = 100 mg/kg/day based on clinical signs of toxicity (piloerection in one male, diarrhea in one female, tip toe gait in 3 females).
Acute dietary (Females 13 to 49 years of age).	NOAEL = 30 mg/kg/day UFA = 10x UF <sub>H</sub> = 10x FQPA SF = 1x	Acute RfD = 0.3 mg/kg/day. aPAD = 0.3 mg/kg/day	Developmental Study—Rat. LOAEL = 90 mg/kg/day based on increased incidence of rudimentary ribs, un-ossified sternbrae, as well as increased incidence of shortened and absent renal papillae and increased cleft palate.

TABLE 1—SUMMARY OF TOXICOLOGICAL DOSES AND ENDPOINTS FOR PROPICONAZOLE FOR USE IN HUMAN HEALTH RISK ASSESSMENT—Continued

Exposure/scenario	Point of departure and uncertainty/safety factors	RfD, PAD, LOC for risk assessment	Study and toxicological effects
Chronic dietary (All populations) .....	NOAEL = 10 mg/kg/day UFA = 10x UF <sub>H</sub> = 10x FQPA SF = 1xa	Chronic RfD = 0.1 mg/kg/day. cPAD = 0.1 mg/kg/day	24-month carcinogenicity study on CD-1 mice. LOAEL = 50 mg/kg/day based on non-neoplastic liver effects (increased liver weight in males and increase in liver lesions: Masses/raised areas/swellings/nodular areas mainly).
Incidental oral short-term (1 to 30 days) and intermediate-term (1 to 6 months) Children.	NOAEL= 42 mg/kg/day UFA = 10x UF <sub>H</sub> = 10x FQPA SF = 1x	Residential LOC for MOE = 100.	2-Generation Reproduction Study—Rats. Offspring LOAEL =192 mg/kg/day based on decreased offspring survival and body weights and an increased incidence of hepatic lesions (cellular swelling).
Incidental oral short-term (1 to 30 days) Adults including females 13+.	NOAEL= 30 mg/kg/day UFA = 10x UF <sub>H</sub> = 10x FQPA SF = 1x	Residential LOC for MOE = 100.	Developmental Study—Rat. Developmental LOAEL = 90 mg/kg/day based on increased incidence of rudimentary ribs, un-ossified sternbrae, as well as increased incidence of shortened and absent renal papillae and increased cleft palate presumed to occur after single or multiple doses.
Dermal short-term (1 to 30 days) and intermediate-term (1 to 6 months) DAF = 40% Children.	NOAEL= 42 mg/kg/day UFA = 10x UF <sub>H</sub> = 10x FQPA SF = 1x	Residential LOC for MOE = 100.	2-Generation Reproduction Study—Rats. Offspring LOAEL =192 mg/kg/day based on decreased offspring survival and body weights and an increased incidence of hepatic lesions (cellular swelling).
Dermal short-term (1 to 30 days) and intermediate-term (1 to 6 months) DAF = 40% Adults.	NOAEL= 30 mg/kg/day UFA = 10x UF <sub>H</sub> = 10x FQPA SF = 1x	Residential LOC for MOE = 100.	Developmental Study—Rat. Developmental LOAEL = 90 mg/kg/day based on increased incidence of rudimentary ribs, un-ossified sternbrae, as well as increased incidence of shortened and absent renal papillae and increased cleft palate presumed to occur after single or multiple doses.
Inhalation short-term (1 to 30 days) and intermediate-term (1 to 6 months) Adults including females 13+.	NOAEL= 30 mg/kg/day UFA = 10x UF <sub>H</sub> = 10x FQPA SF = 1x	Residential LOC for MOE = 100.	Developmental Study—Rat. Developmental LOAEL = 90 mg/kg/day based on increased incidence of rudimentary ribs, un-ossified sternbrae, as well as increased incidence of shortened and absent renal papillae and increased cleft palate presumed to occur after single or multiple doses.
Cancer (Oral, dermal, inhalation) .....	Classification: Group C, possible human carcinogen, RfD approach for risk characterization.		

FQPA SF = Food Quality Protection Act Safety Factor. LOAEL = lowest-observed-adverse-effect-level. LOC = level of concern. mg/kg/day = milligram/kilogram/day. MOE = margin of exposure. NOAEL = no-observed-adverse-effect-level. PAD = population adjusted dose (a = acute, c = chronic). RfD = reference dose. UF = uncertainty factor. UFA = extrapolation from animal to human (interspecies). UF<sub>H</sub> = potential variation in sensitivity among members of the human population (intraspecies). DAF = Dermal Absorption Factor.

### C. Exposure Assessment

1. *Dietary exposure from food and feed uses.* In evaluating dietary exposure to propiconazole, EPA considered exposure under the petitioned-for tolerances as well as all existing propiconazole tolerances in 40 CFR 180.434. EPA assessed dietary exposures from propiconazole in food as follows:

i. *Acute exposure.* Quantitative acute dietary exposure and risk assessments are performed for a food-use pesticide, if a toxicological study has indicated the possibility of an effect of concern occurring as a result of a 1-day or single exposure. Such effects were identified for propiconazole. In estimating acute dietary exposure, EPA used food consumption information from the United States Department of Agriculture (USDA) Nationwide Health and Nutrition Examination Survey, What We Eat in America (NHANES/WWEIA) conducted from 2003–2008. As to residue levels in food, the acute dietary analysis assumed 100 percent crops treated (PCT) and tolerance-level residues for all existing and proposed commodities.

ii. *Chronic exposure.* In conducting the chronic dietary exposure assessment EPA used the food consumption data from the USDA NHANES/WWEIA conducted from 2003–2008. As to residue levels in food, the chronic dietary analysis assumed 100 PCT, average field trial residues or tolerance-level residues for all existing and proposed commodities.

iii. *Cancer.* Based on the data summarized in Unit III.A., EPA has concluded that a nonlinear RfD approach is appropriate for assessing cancer risk to propiconazole. Cancer risk was assessed using the same exposure estimates as discussed in Unit III.C.1.ii., *chronic exposure.*

iv. *Anticipated residue information.* Section 408(b)(2)(E) of FFDCA authorizes EPA to use available data and information on the anticipated residue levels of pesticide residues in food and the actual levels of pesticide residues that have been measured in food. If EPA relies on such information, EPA must require pursuant to FFDCA section 408(f)(1) that data be provided 5 years after the tolerance is established, modified, or left in effect, demonstrating

that the levels in food are not above the levels anticipated. For the present action, EPA will issue such data call-ins as are required by FFDCA section 408(b)(2)(E) and authorized under FFDCA section 408(f)(1). Data will be required to be submitted no later than 5 years from the date of issuance of these tolerances.

2. *Dietary exposure from drinking water.* The Agency used screening level water exposure models in the dietary exposure analysis and risk assessment for propiconazole in drinking water. These simulation models take into account data on the physical, chemical, and fate/transport characteristics of propiconazole. Further information regarding EPA drinking water models used in pesticide exposure assessment can be found at <http://www2.epa.gov/pesticide-science-and-assessing-pesticide-risks/about-water-exposure-models-used-pesticide>.

Based on the Surface Water Concentration Calculator (SWCC) and Pesticide Root Zone Model Ground Water (PRZM GW), the estimated drinking water concentrations (EDWCs) of propiconazole for acute exposures are

estimated to be 35.2 parts per billion (ppb) for surface water and 37.9 ppb for ground water and for chronic exposures for cancer assessments are estimated to be 18.6 ppb for surface water and 35.1 ppb for ground water.

Modeled estimates of drinking water concentrations were directly entered into the dietary exposure model. For acute dietary risk assessment, the water concentration value of 37.9 ppb was used to assess the contribution to drinking water. For chronic dietary risk assessment, the water concentration of value 35.1 ppb was used to assess the contribution to drinking water.

3. *From non-dietary exposure.* The term “residential exposure” is used in this document to refer to non-occupational, non-dietary exposure (e.g., for lawn and garden pest control, indoor pest control, termiticides, and flea and tick control on pets). Although there are no residential use patterns associated with the proposed uses, propiconazole is currently registered for the following uses that could result in residential handler and post-application exposures: Turf, landscapes, ornamentals, and paint. EPA assessed several residential exposure scenarios and incorporated the following scenarios into the short-term aggregate assessment because they reflected the highest exposure patterns for those age groups:

- Post-application dermal exposure for adults from high-contact activities on treated turf;
- Post-application dermal exposure for children 11 to <16 years old from contact with treated turf during golfing;
- Post-application dermal exposure for children 6 to <11 years old from contact with treated gardens.
- Post-application combined dermal plus incidental oral (hand-to-mouth) exposure for children 1 to <2 years old from high-contact activities on treated turf.

The following residential scenario was included in the intermediate-term aggregate assessment:

- Post-application combined dermal plus incidental oral (hand-to-mouth) exposure for children 1 to <2 years old from the registered wood treatment (antimicrobial use).

Further information regarding EPA standard assumptions and generic inputs for residential exposures may be found at <https://www.epa.gov/pesticide-science-and-assessing-pesticide-risks/standard-operating-procedures-residential-pesticide>.

4. *Cumulative effects from substances with a common mechanism of toxicity.* Section 408(b)(2)(D)(v) of FFDCA requires that, when considering whether

to establish, modify, or revoke a tolerance, the Agency consider “available information” concerning the cumulative effects of a particular pesticide’s residues and “other substances that have a common mechanism of toxicity.”

Unlike other pesticides for which EPA has followed a cumulative risk approach based on a common mechanism of toxicity, EPA has not made a common mechanism of toxicity finding as to propiconazole and any other substances; the Agency’s previous statements regarding the potential for a common mechanism among the conazoles noted that the underlying data available at the time were inconclusive. Although the conazole fungicides (triazoles) produce 1,2,4 triazole and its acid-conjugated metabolites (triazolylalanine and triazolylacetic acid), 1,2,4 triazole and its acid-conjugated metabolites do not contribute to the toxicity of the parent conazole fungicides (triazoles). The Agency has assessed the aggregate risks from the 1,2,4 triazole and its acid-conjugated metabolites (triazolylalanine and triazolylacetic acid) separately. The supporting risk assessment concludes that aggregate risks are below the Agency’s level of concern and can be found at <http://www.regulations.gov> in the document titled “Common Triazole Metabolites: Updated Aggregate Human Health Risk Assessment to Address New Section 3 Registrations For Use of Difenconazole and Mefentrifluconazole.” in docket ID number EPA–HQ–OPP–2018–0002. Propiconazole does not appear to produce any other toxic metabolite produced by other substances. For the purposes of this action, therefore, EPA has not assumed that propiconazole has a common mechanism of toxicity with other substances.

For information regarding EPA’s efforts to determine which chemicals have a common mechanism of toxicity and to evaluate the cumulative effects of such chemicals, see EPA’s website at <http://www2.epa.gov/pesticide-science-and-assessing-pesticide-risks/cumulative-assessment-risk-pesticides>.

#### D. Safety Factor for Infants and Children

1. *In general.* Section 408(b)(2)(C) of FFDCA provides that EPA shall apply an additional tenfold (10X) margin of safety for infants and children in the case of threshold effects to account for prenatal and postnatal toxicity and the completeness of the database on toxicity and exposure unless EPA determines based on reliable data that a different margin of safety will be safe for infants and children. This additional margin of

safety is commonly referred to as the FQPA Safety Factor (SF). In applying this provision, EPA either retains the default value of 10X, or uses a different additional safety factor when reliable data available to EPA support the choice of a different factor.

2. *Prenatal and postnatal sensitivity.* In the developmental toxicity study in rats, fetal effects observed in this study at a dose lower than the maternal toxicity are quantitative evidence of increased susceptibility of fetuses to *in utero* exposure to propiconazole. Neither quantitative nor qualitative evidence of increased susceptibility was observed *in utero* or post-natal in either the rabbit developmental or 2-generation reproduction rat study. There is no evidence of neuropathology or abnormalities in the development of the fetal nervous system from the available toxicity studies conducted with propiconazole. In the rat acute neurotoxicity study, there was evidence of clinical toxicity at the high dose of 300 mg/kg, but no evidence of neuropathology from propiconazole administration.

Although there was quantitative evidence of increased susceptibility of the young following exposure to propiconazole in the developmental rat study, the Agency determined there is a low degree of concern for this finding and no residual uncertainties because the increased susceptibility was based on minimal toxicity at high doses of administration, clear NOAELs and LOAELs have been identified for all effects of concern, and a clear dose-response has been well defined.

3. *Conclusion.* EPA has determined that reliable data show the safety of infants and children would be adequately protected if the FQPA SF were reduced to 1x. That decision is based on the following findings:

- i. The toxicity database for propiconazole is complete.
- ii. There is no indication that propiconazole is a neurotoxic chemical and there is no need for a developmental neurotoxicity study or additional UFs to account for neurotoxicity. Other than the mild effects seen at 300 mg/kg in the acute neurotoxicity study, neurotoxicity and neurobehavioral effects were not seen in the propiconazole toxicity database. The liver, not the nervous system, is the primary target organ of propiconazole toxicity.

iii. Although quantitative susceptibility was observed in the rat developmental study, a clear NOAEL is established for the developmental effects. There are no remaining

uncertainties for prenatal and/or postnatal toxicity.

iv. There are no residual uncertainties identified in the exposure databases. The acute dietary food exposure assessments were performed based on 100 PCT and tolerance-level residues, while the chronic used a combination of tolerance-level residues and reliable data on average field trial residues and 100 PCT. EPA made conservative (protective) assumptions in the ground and surface water modeling used to assess exposure to propiconazole in drinking water. EPA used similarly conservative assumptions to assess postapplication exposure of children as well as incidental oral exposure of toddlers. These assessments will not underestimate the exposure and risks posed by propiconazole.

#### E. Aggregate Risks and Determination of Safety

EPA determines whether acute and chronic dietary pesticide exposures are safe by comparing aggregate exposure estimates to the acute PAD (aPAD) and chronic PAD (cPAD). For linear cancer risks, EPA calculates the lifetime probability of acquiring cancer given the estimated aggregate exposure. Short-, intermediate-, and chronic-term risks are evaluated by comparing the estimated aggregate food, water, and residential exposure to the appropriate PODs to ensure that an adequate MOE exists.

1. *Acute risk.* Using the exposure assumptions discussed in this unit for acute exposure, the acute dietary exposure from food and water to propiconazole will occupy 85% of the aPAD for children 1 to 2 years old, the population group receiving the greatest exposure.

2. *Chronic risk.* Using the exposure assumptions described in this unit for chronic exposure, EPA has concluded that chronic exposure to propiconazole from food and water will utilize 25% of the cPAD for children 1 to 2 years old, the population group receiving the greatest exposure. Based on the explanation in Unit III.C.3., regarding residential use patterns, chronic residential exposure to residues of propiconazole is not expected.

3. *Short-term risk.* Short-term aggregate exposure takes into account short-term residential exposure plus chronic exposure to food and water (considered to be a background exposure level).

Propiconazole is currently registered for uses that could result in short-term residential exposure, and the Agency has determined that it is appropriate to aggregate chronic exposure through food

and water with short-term residential exposures to propiconazole.

Using the exposure assumptions described in this unit for short-term exposures, EPA has concluded the combined short-term food, water, and residential exposures result in aggregate MOEs of 120 for children 1 to 2 years and an MOE of 130 for adults from post-application activity on treated turf. Because EPA's level of concern for propiconazole is an MOE of 100 or below, these MOEs are not of concern.

4. *Intermediate-term risk.* Intermediate-term aggregate exposure takes into account intermediate-term residential exposure plus chronic exposure to food and water (considered to be a background exposure level).

Propiconazole is currently registered for wood treatment use that could result in intermediate-term residential exposure, and the Agency has determined that it is appropriate to aggregate chronic exposure through food and water with intermediate-term residential exposures to propiconazole.

Using the exposure assumptions described in this unit for intermediate-term exposures, EPA has concluded that the combined intermediate-term food, water, and residential exposures result in aggregate MOEs of 470 for children 1 to 2 years old from post-application exposure from wood treatment (antimicrobial use). Because EPA's level of concern for propiconazole is an MOE of 100 or below, these MOEs are not of concern.

5. *Aggregate cancer risk for U.S. population.* Based on the discussion in Unit III.A., EPA considers the chronic aggregate risk assessment to be protective of any aggregate cancer risk. As there is no chronic risk of concern, EPA does not expect any cancer risk to the U.S. population from aggregate exposure to propiconazole.

6. *Determination of safety.* Based on these risk assessments, EPA concludes that there is a reasonable certainty that no harm will result to the general population, or to infants and children from aggregate exposure to propiconazole residues.

#### IV. Other Considerations

##### A. Analytical Enforcement Methodology

Adequate enforcement methodology, high-performance liquid chromatography/ultraviolet (HPLC/UV) detector, Method AG-671A, is available to enforce the tolerance expression.

The method may be requested from: Chief, Analytical Chemistry Branch, Environmental Science Center, 701 Mapes Rd., Ft. Meade, MD 20755-5350; telephone number: (410) 305-2905;

email address: [residuemethods@epa.gov](mailto:residuemethods@epa.gov).

##### B. International Residue Limits

In making its tolerance decisions, EPA seeks to harmonize U.S. tolerances with international standards whenever possible, consistent with U.S. food safety standards and agricultural practices. EPA considers the international maximum residue limits (MRLs) established by the Codex Alimentarius Commission (Codex), as required by FFDCA section 408(b)(4). The Codex Alimentarius is a joint United Nations Food and Agriculture Organization/World Health Organization food standards program, and it is recognized as an international food safety standards-setting organization in trade agreements to which the United States is a party. EPA may establish a tolerance that is different from a Codex MRL; however, FFDCA section 408(b)(4) requires that EPA explain the reasons for departing from the Codex level.

The Codex has not established MRLs for propiconazole for any of the commodities in this action.

##### C. Revisions to Petitioned-For Tolerances

Based on current policy to use consistent commodity terminology across tolerances, the tolerance "Florence fennel" is being established as "Fennel, Florence, fresh leaves and stalk". Moreover, tolerances are being established without the requested trailing zeros in accordance with the Agency's current rounding class practice. Finally, EPA is not removing the tolerance for tomato or establishing a new tomato subgroup 8-10A tolerance because the request for that expansion was withdrawn by the petitioner and therefore, was not assessed.

#### V. Conclusion

Therefore, tolerances are established for residues of propiconazole, 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1*H*-1,2,4-triazole, in or on Avocado at 0.2 ppm; *Brassica*, leafy greens, subgroup 4-16B, except watercress at 20 ppm; Celtnuce at 5 ppm; Fennel, Florence, fresh leaves and stalk at 5 ppm; Leaf petiole vegetable subgroup 22B at 5 ppm; Swiss chard at 5 ppm, and Vegetable, root, except sugar beet, subgroup 1B at 0.3 ppm.

Additionally, the existing tolerances on the following commodities are removed as unnecessary due to the establishment of the above tolerances: Avocado (time-limited tolerance); Beet, garden, roots; *Brassica* leafy greens, subgroup 5B; Carrot, roots; Leaf petioles

subgroup 4B; and Radish, roots. In addition, EPA is removing the tolerance for pistachio; that individual tolerance is unnecessary since pistachio is included in group 14–12, and the tolerance levels are the same.

VI. Statutory and Executive Order Reviews

This action establishes tolerances under FFDCA section 408(d) in response to a petition submitted to the Agency. The Office of Management and Budget (OMB) has exempted these types of actions from review under Executive Order 12866, entitled “Regulatory Planning and Review” (58 FR 51735, October 4, 1993). Because this action has been exempted from review under Executive Order 12866, this action is not subject to Executive Order 13211, entitled “Actions Concerning Regulations That Significantly Affect Energy Supply, Distribution, or Use” (66 FR 28355, May 22, 2001) or Executive Order 13045, entitled “Protection of Children from Environmental Health Risks and Safety Risks” (62 FR 19885, April 23, 1997), nor is it considered a regulatory action under Executive Order 13771, entitled “Reducing Regulations and Controlling Regulatory Costs” (82 FR 9339, February 3, 2017). This action does not contain any information collections subject to OMB approval under the Paperwork Reduction Act (PRA) (44 U.S.C. 3501 et seq.), nor does it require any special considerations under Executive Order 12898, entitled “Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations” (59 FR 7629, February 16, 1994).

Since tolerances and exemptions that are established on the basis of a petition under FFDCA section 408(d), such as the tolerances in this final rule, do not require the issuance of a proposed rule, the requirements of the Regulatory Flexibility Act (RFA) (5 U.S.C. 601 et seq.), do not apply.

This action directly regulates growers, food processors, food handlers, and food retailers, not States or tribes, nor does this action alter the relationships or distribution of power and responsibilities established by Congress in the preemption provisions of FFDCA section 408(n)(4). As such, the Agency has determined that this action will not have a substantial direct effect on States or tribal governments, on the relationship between the national government and the States or tribal governments, or on the distribution of power and responsibilities among the various levels of government or between the Federal Government and Indian

tribes. Thus, the Agency has determined that Executive Order 13132, entitled “Federalism” (64 FR 43255, August 10, 1999) and Executive Order 13175, entitled “Consultation and Coordination with Indian Tribal Governments” (65 FR 67249, November 9, 2000) do not apply to this action. In addition, this action does not impose any enforceable duty or contain any unfunded mandate as described under Title II of the Unfunded Mandates Reform Act (UMRA) (2 U.S.C. 1501 et seq.).

This action does not involve any technical standards that would require Agency consideration of voluntary consensus standards pursuant to section 12(d) of the National Technology Transfer and Advancement Act (NTTAA) (15 U.S.C. 272 note).

VII. Congressional Review Act

Pursuant to the Congressional Review Act (5 U.S.C. 801 et seq.), EPA will submit a report containing this rule and other required information to the U.S. Senate, the U.S. House of Representatives, and the Comptroller General of the United States prior to publication of the rule in the Federal Register. This action is not a “major rule” as defined by 5 U.S.C. 804(2).

List of Subjects in 40 CFR Part 180

Environmental protection, Administrative practice and procedure, Agricultural commodities, Pesticides and pests, Reporting and recordkeeping requirements.

Dated: August 2, 2019.

Michael Goodis,

Director, Registration Division, Office of Pesticide Programs.

Therefore, 40 CFR chapter I is amended as follows:

PART 180—[AMENDED]

■ 1. The authority citation for part 180 continues to read as follows:

Authority: 21 U.S.C. 321(q), 346a and 371.

■ 2. In § 180.434,

■ a. Add alphabetically the entries “Avocado”; “Brassica, leafy greens, subgroup 4–16B, except watercress”; “Celtuce”; “Fennel, Florence, fresh leaves and stalk”; “Leaf petiole vegetable subgroup 22B”; “Swiss chard”; and “Vegetable, root, except sugar beet, subgroup 1B” to the table in paragraph (a)(1).

■ b. Remove the entries “Beet, garden, roots”; “Brassica leafy greens, subgroup 5B”; “Carrot, roots”; “Leaf petioles subgroup 4B”; “Pistachio”; and “Radish, roots” from the table in paragraph (a)(1).

■ c. Remove the entry “Avocado” from the table in paragraph (b).

The additions read as follows:

§ 180.434 Propiconazole; tolerances for residues.

- (a) \* \* \*
(1) \* \* \*

Table with 2 columns: Commodity and Parts per million. Rows include Avocado (0.2), Brassica, leafy greens, subgroup 4–16B, except watercress (20), Celtuce (5), Fennel, Florence, fresh leaves and stalk (5), Leaf petiole vegetable subgroup 22B (5), Swiss chard (5), and Vegetable, root, except sugar beet, subgroup 1B (0.3).

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DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

50 CFR Part 635

[Docket No. 170605543–7999–02]

RIN 0648–XT005

Atlantic Highly Migratory Species; Commercial Blacktip Sharks, Aggregated Large Coastal Sharks, and Hammerhead Sharks in the Gulf of Mexico Region; Retention Limit Adjustment

AGENCY: National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), Commerce.

ACTION: Temporary rule; inseason retention limit adjustment.

SUMMARY: NMFS is adjusting the commercial retention limit for blacktip shark, aggregated large coastal sharks (LCS), and hammerhead shark management groups in the Gulf of Mexico region from 45 LCS other than sandbar sharks per vessel per trip to 55