patrol the regulated area under the direction of a designated Coast Guard Patrol Commander. The Patrol Commander may be contacted on Channel 16 VHF–FM (156.8 MHz) by the call sign “PATCOM”.

(2) All persons and vessels not registered with the sponsor as participants or official patrol vessels are considered spectators. The “official patrol vessels” consist of any Coast Guard, state, or local law enforcement and sponsor provided vessels assigned or approved by the Captain of the Port (COTP) Mobile to patrol the regulated area.

(3) Spectator vessels desiring to transit the regulated area may do so only with prior approval of the Patrol Commander and when so directed by that officer will be operated at a minimum safe navigation speed in a manner which will not endanger participants in the regulated area or any other vessels.

(4) No spectator vessel shall anchor, block, loiter, or impede the through transit of participants or official patrol vessels in the regulated area during the effective dates and times, unless cleared for entry by or through an official patrol vessel.

(5) The patrol commander may forbid and control the movement of all vessels in the regulated area. When hailed or signaled by an official patrol vessel, a vessel shall come to an immediate stop and comply with the directions given. Failure to do so may result in expulsion from the area, citation for failure to comply, or both.

(6) Any spectator vessel may anchor outside the regulated area, but may not anchor in, block, or loiter in a navigable channel. Spectator vessels may be moored to a waterfront facility within the regulated area in such a way that they shall not interfere with the progress of the event. Such mooring must be complete at least 30 minutes prior to the establishment of the regulated area and remain moored through the duration of the event.

(7) The Patrol Commander may terminate the event or the operation of any vessel at any time it is deemed necessary for the protection of life or property.

(8) The Patrol Commander will terminate enforcement of the special local regulations at the conclusion of the event.

(d) Informational broadcasts. The COTP Mobile or a designated representative will inform the public through broadcast notices to mariners of the enforcement period for the regulated area as well as any changes in the date and times of enforcement.
2016–0380, by one of the following methods:

- **Federal eRulemaking Portal**: [http://www.regulations.gov](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](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/dockets](http://www.epa.gov/dockets/dockets).

II. Summary of Petitioned-For Tolerance

In the **Federal Register** of August 29, 2016 (81 FR 59165) (FRL–9950–22), 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 5E8366 by BASF Corporation, 26 Davis Drive, P.O. Box 13528, Research Triangle Park, North Carolina 27709–3528. The petition requested that 40 CFR 180.666 be amended by establishing tolerances for residues of the fungicide fluxapyroxad, in or on banana at 3.0 parts per million (ppm); coffee, green bean at 0.2 ppm; and mango at 0.7 ppm; and papaya at 0.6 ppm. That document referenced a summary of the petition prepared by BASF Corporation, the registrant, which is available in the docket, [http://www.epa.gov/dockets](http://www.epa.gov/dockets). There were no comments received in response to the notice of filing.

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 fluxapyroxad including exposure resulting from the tolerances established by this action. EPA’s assessment of exposures and risks associated with fluxapyroxad follows.

A. Toxicological Profile

EPA has evaluated the available toxicity data and considered its 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 Agency recently published a tolerance rulemaking for fluxapyroxad. See **Federal Register** of May 5, 2016 (81 FR 27019) (FRL–9945–48). The toxicological profile and endpoints used for human risk assessment have not changed since that time. Therefore, the Agency is relying on that discussion of the toxicological profile and the toxicological endpoints for this rulemaking as well. Please refer to Unit III. B of the final rule published in the **Federal Register** of May 5, 2016 (81 FR 27019) (FRL–9945–48). In addition, specific information on the studies received and the nature of the adverse effects caused by fluxapyroxad 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](http://www.regulations.gov) in document, “Human Health Risk Assessment for Use of Fluxapyroxad on Imported Banana, Coffee, Mango, and Papaya.”

B. Exposure Assessment

1. Dietary exposure from food and feed uses. In evaluating dietary exposure to fluxapyroxad, EPA considered exposure under the petitioned instance as well as all existing fluxapyroxad tolerances in 40 CFR 180.666. EPA assessed dietary exposures from fluxapyroxad 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 fluxapyroxad. In estimating acute dietary exposure, EPA used food consumption information from the United States Department of Agriculture (USDA) 2003–2008 food consumption data NHANES/WWEIA. Tolerance level residues adjusted to account for the metabolites of concern (M700F008) and 100% crop treated assumptions were used for all plant commodities.

   ii. **Chronic exposure.** In conducting the chronic dietary exposure assessment EPA used the food consumption data from the USDA 2003–2008 CSFII. As to residue levels in food, EPA conducted a moderately refined exposure analysis for the general U.S. population and various population subgroups. Average field trial residues for parent plus maximum metabolite residue were used for all plant commodities. An assumption of 100% crop treated was also used for the chronic dietary assessment. DEEM default and empirical processing factors were used.

   iii. **Cancer.** Based on the data summarized in Unit III.A., EPA has concluded that fluxapyroxad does not pose a cancer risk to humans. Therefore, a dietary exposure assessment for the purpose of assessing cancer risk is unnecessary.

   iv. **Anticipated residue and percent crop treated (PCT) 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 exposures models for the dietary exposure analysis and risk assessment for fluxapyroxad in drinking water.
These simulation models take into account data on the physical, chemical, and fate/transport characteristics of fluxapyroxad. Further information regarding EPA drinking water models used in pesticide exposure assessment can be found at http://www.epa.gov/oppefed1/models/water/index.htm.

Based on the Pesticide Root Zone Model Ground Water (PRZM/GW), the estimated drinking water concentrations (EDWCs) of fluxapyroxad for acute exposures are 127 ppb parts per billion (ppb) for surface water and 203 ppb for ground water. The EDWCs for chronic exposures for non-cancer assessments are 127 ppb for surface water and 188 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 203 ppb was used to assess the contribution to drinking water. For chronic dietary risk assessment, the water concentration value of 188 ppb was used to assess the contributing 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, termiteicides, and flea and tick control on pets).

There is no residential exposure associated with the proposed uses of fluxapyroxad in this action; however, there are existing turf uses that were previously assessed for fluxapyroxad. Although the Agency had conducted a residential exposure assessment for previous fluxapyroxad actions, the Agency completed an updated turf assessment to reflect an update in the single maximum application rate from 2.47 lb active ingredient (ai)/gallon to 0.005 lb ai/gallon. The present assessment assumed the following exposure scenarios:

- **Residential handler:** The Agency assessed inhalation exposures to adults from applications only because fluxapyroxad does not pose a dermal risk. Residential handler exposure is expected to be short-term in duration. Intermediate-term exposures are not likely because of the intermittent nature of applications by homeowners.
- **Post-application exposures:** Dermal exposures were not assessed because there is no identified systemic dermal hazard for fluxapyroxad. Post-application inhalation exposure while engaged in activities on or around previously treated turf is generally not quantified. The combination of low vapor pressure for chemicals typically used as active ingredients in outdoor residential pesticide products and dilution in outdoor air is likely to result in minimal inhalation exposure. Incidental oral exposure for children is anticipated. The quantitative oral exposure/risk assessment for residential post-application exposures is based on the incidental oral scenario for children 1 to <2 years old.

Further information regarding EPA standard assumptions and generic inputs for residential exposures may be found at http://www.epa.gov/pesticides/trac/science/tract065.pdf.

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.” EPA has not found fluxapyroxad to share a common mechanism of toxicity with any other substances, and fluxapyroxad does not appear to produce a toxic metabolite produced by other substances. For the purposes of this tolerance action, therefore, EPA has assumed that fluxapyroxad does not have 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 Web site at http://www.epa.gov/pesticides/ cumulative.

C. 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.

No evidence of quantitative susceptibility was observed in a reproductive and developmental toxicity study conducted for fluxapyroxad. The developmental toxicity studies in rats and rabbits. Developmental toxicity data in rats showed decreased body weight and body weight gain in the offspring at the same dose levels that caused thyroid follicular hypertrophy/hyperplasia in parental animals. Effects in rabbits were limited to paw hyperflexion, a malformation that is not considered to result from a single exposure and that usually reverses as the animal matures. Developmental effects observed in both rats and rabbits occurred at the same doses as those that caused adverse effects in maternal animals, indicating no quantitative susceptibility. The Agency has low concern for developmental toxicity because the observed effects were of low severity, were likely secondary to maternal toxicity, and demonstrated clear NOAELs. Further, the NOAELs for these effects were at dose levels higher than the points of departure selected for risk assessment for repeat-exposure scenarios. Therefore, based on the available data and the selection of risk assessment endpoints that are protective of developmental effects, there are no residual uncertainties with regard to pre- and/or postnatal toxicity.

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 fluxapyroxad is complete.

ii. There is no indication that fluxapyroxad is a neurotoxic chemical and there is no need for a developmental neurotoxicity study or additional UF's to account for neurotoxicity. Although an acute neurotoxicity study showed decreased rearing and motor activity, this occurred on the day of dosing only in the absence of histopathological effects or alterations in brain weights. This indicated that any neurotoxic effects of fluxapyroxad are likely to be transient and reversible due to alterations in neuropharmacology and not from neuronal damage. The Agency has low concern for neurotoxic effects of fluxapyroxad at any life stage.

iii. Based on the developed and reproductive toxicity studies discussed in Unit III.C.2., there are no residual uncertainties with regard to prenatal and/or postnatal toxicity.

iv. There are no residual uncertainties identified in the exposure databases. The residue database is adequate. The dietary risk assessment is conservative and will not underestimate dietary exposure to fluxapyroxad. There are existing turf uses that were previously assessed and approved for fluxapyroxad. The assessment will not underestimate residential exposure via
handler for adults and incidental oral for children. EPA made conservative (protective) assumptions in the ground and surface water modeling used to assess exposure to fluxapyroxad in drinking water. EPA used similarly conservative assumptions to assess post application exposure of children as well as incidental oral exposure of toddlers. There are residential uses proposed for fluxapyroxad and the assessment will not underestimate residential exposure via handler for adults and incidental oral for children.

D. 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 fluxapyroxad will occupy 13% of the PAD 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 fluxapyroxad from food and water will utilize 70% of the cPAD for infants (<1 year old).

There are no residential use patterns associated with the proposed uses in this action; however, there are residential exposure from existing turf uses that were previously assessed for fluxapyroxad. As a result, aggregate risk is represented by chronic dietary (food and water) and residential exposure. As reflected in these assessments, there are no risk concerns.

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). Fluxapyroxad 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 fluxapyroxad. 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 1,139 for adults and 431 for children. Because EPA’s level of concern for fluxapyroxad is a 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). An intermediate-term adverse effect was identified; however, fluxapyroxad is not registered for any use patterns that would result in intermediate-term residential exposure. Intermediate-term risk is assessed based on intermediate-term residential exposure plus chronic dietary exposure. Because there is no intermediate-term residential exposure and chronic dietary exposure has already been assessed under the appropriately protective CPAD (which is at least as protective as the POD used to assess intermediate-term risk), no further assessment of intermediate-term risk is necessary, and EPA relies on the chronic dietary risk assessment for evaluating intermediate-term risk for fluxapyroxad.

5. Aggregate cancer risk for U.S. population. As discussed in Unit III.A., EPA has classified fluxapyroxad as “Not likely to be Carcinogenic to Humans” based on convincing evidence that carcinogenic effects are not likely below a defined dose range. The Agency has determined that the quantification of risk using the CPAD for fluxapyroxad will adequately account for all chronic toxicity, including carcinogenicity that could result from exposure to fluxapyroxad. Because the Agency has determined fluxapyroxad will not cause a chronic risk, the Agency concludes that fluxapyroxad will not pose a cancer risk for the U.S. population.

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 fluxapyroxad residues.

IV. Other Considerations

A. Analytical Enforcement Methodology

There is a suitable residue analytical method available for enforcement of fluxapyroxad tolerances for plants (BASF Methods L0137/01) which has been radio validated and has undergone successful validation by an independent laboratory. There are liquid chromatography with tandem mass spectrometry (LC/MS/MS) method and monitors two ion transitions. The Limit of Quantitation (LOQ) for BASF method L0137/01 is 0.01 ppm for various matrices.

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 a MRL for fluxapyroxad.

V. Conclusion

Therefore, tolerances are established without a U.S. registration for residues of fluxapyroxad in or on banana at 3.0 parts per million (ppm); coffee green bean at 0.2 ppm; mango at 0.7 ppm; and papaya at 0.6 ppm.

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). 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 tolerance 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: October 24, 2016.

Daniel J. Rosenblatt,
Acting 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:


2. In § 180.666, add alphabetically the entries “Banana”, “Coffee, green bean”, “Mango”, and “Papaya” to the table in paragraph (a), and add footnote 1 to the table to read as follows:

§ 180.666 Fluxapyroxad; tolerances for residues.

(a) * * *

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† There are no U.S. registrations for this commodity as of November 8, 2016.

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