ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 180

[EPA-HQ-OPP-2017-0541; FRL-9418-01-OCSPP]

2-Isobutyl-2-methyl-1,3-dioxolane-4-methanol; Exemption from the Requirement of a Tolerance

AGENCY: Environmental Protection Agency (EPA).

ACTION: Final rule.

SUMMARY: This regulation establishes an exemption from the requirement of a tolerance for residues of 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol (CAS Reg. No. 5660-53-7) when used as an inert ingredient (solvent/cosolvent) on growing crops and raw agricultural commodities after harvest, and in antimicrobial formulations applied to food-contact surfaces in public eating places, dairy-processing equipment, and food-processing equipment and utensils. SciReg, Inc., on behalf of Solvay USA Inc., submitted a petition to EPA under the Federal Food, Drug, and Cosmetic Act (FFDCA), requesting establishment of an exemption from the requirement of a tolerance. This regulation eliminates the need to establish a maximum permissible level for residues of 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol, when used in accordance with the terms of those exemptions.

DATES: This regulation is effective [INSERT DATE OF PUBLICATION IN THE *FEDERAL REGISTER*]. Objections and requests for hearings must be received on or before [INSERT DATE 60 DAYS AFTER DATE OF PUBLICATION IN THE *FEDERAL REGISTER*], 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-2017-0541, is available at *https://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.

Due to the public health concerns related to COVID-19, the EPA Docket Center (EPA/DC) and Reading Room is closed to visitors with limited exceptions. The staff continues to provide remote customer service via email, phone, and webform. For the latest status information on EPA/DC services and docket access, visit https://www.epa.gov/dockets.

FOR FURTHER INFORMATION CONTACT: Marietta Echeverria, 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: *RDFRNotices@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).
- Animal production (NAICS code 112).
- 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 40 CFR part 180 through the Office of the Federal Register's e-CFR site at https://www.ecfr.gov/current/title-40.

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-2017-0541 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 [INSERT DATE 60 DAYS AFTER DATE OF PUBLICATION IN THE *FEDERAL REGISTER*]. 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-2017-0541, by one of the following methods:

- Federal eRulemaking Portal: https://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 https://www.epa.gov/dockets/contacts.html.

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

II. Petition for Exemption

In the *Federal Register* of December 15, 2017 (82 FR 59604) (FRL-9970-50), EPA issued a document pursuant to FFDCA section 408, 21 U.S.C. 346a, announcing the filing of a pesticide petition (PP IN-11066) by SciReg Inc., 12733 Director's Loop, Woodbridge, VA, 22192 on behalf of Solvay USA Inc., 504 Carnegie Center, Princeton, NJ, 08540. The petition requested that 40 CFR 180.910 and 180.940(a) be amended by establishing an exemption from the requirement of a tolerance for residues of 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol (CAS Reg. No. 5660-53-7) when used as an inert ingredient (solvent/co-solvent) in pesticide formulations applied to growing crops or raw agricultural commodities after harvest under 40 CFR 180.910 and when used in antimicrobial formulations (food-contact surface sanitizing solutions) applied to foodcontact surfaces in public eating places, dairy-processing equipment, and food-processing equipment and utensils under 40 CFR 180.940(a). That document referenced a summary of the petition prepared by SciReg, Inc., on behalf of Solvay USA Inc., the petitioner, which is available in the docket, https://www.regulations.gov. There were no relevant comments received in response to the notice of filing.

III. Inert Ingredient Definition

Inert ingredients are all ingredients that are not active ingredients as defined in 40 CFR 153.125 and include, but are not limited to, the following types of ingredients (except when they have a pesticidal efficacy of their own): Solvents such as alcohols and

hydrocarbons; surfactants such as polyoxyethylene polymers and fatty acids; carriers such as clay and diatomaceous earth; thickeners such as carrageenan and modified cellulose; wetting, spreading, and dispersing agents; propellants in aerosol dispensers; microencapsulating agents; and emulsifiers. The term "inert" is not intended to imply nontoxicity; the ingredient may or may not be chemically active. Generally, EPA has exempted inert ingredients from the requirement of a tolerance based on the low toxicity of the individual inert ingredients.

IV. Aggregate Risk Assessment and Determination of Safety

Section 408(c)(2)(A)(i) of FFDCA allows EPA to establish an exemption from the requirement for 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(c)(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. When making a safety determination for an exemption for the requirement of a tolerance FFDCA section 408(c)(2)(B) directs EPA to consider the considerations in section 408(b)(2)(C) and (D). 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...." Section 408(b)(2)(D) lists other factors for EPA consideration making safety determinations, e.g., the validity, completeness, and reliability of available data, nature of toxic effects, available information concerning the cumulative effects of the pesticide chemical and other substances with a common mechanism of toxicity, and available information concerning aggregate exposure levels

to the pesticide chemical and other related substances, among others.

EPA establishes exemptions from the requirement of a tolerance only in those cases where it can be clearly demonstrated that the risks from aggregate exposure to pesticide chemical residues under reasonably foreseeable circumstances will pose no appreciable risks to human health. In order to determine the risks from aggregate exposure to pesticide inert ingredients, the Agency considers the toxicity of the inert in conjunction with possible exposure to residues of the inert ingredient through food, drinking water, and through other exposures that occur as a result of pesticide use in residential settings. If EPA is able to determine that a finite tolerance is not necessary to ensure that there is a reasonable certainty that no harm will result from aggregate exposure to the inert ingredient, an exemption from the requirement of a tolerance may be established.

Consistent with FFDCA section 408(c)(2)(A), and the factors specified in FFDCA section 408(c)(2)(B), 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 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol including exposure resulting from the exemption established by this action. EPA's assessment of exposures and risks associated with 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol 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. Specific information on the studies received and the nature of the adverse effects caused by 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol as well as the no-

observed-adverse-effect-level (NOAEL) and the lowest-observed-adverse-effect-level (LOAEL) from the toxicity studies

The toxicological database of 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol is supported by data regarding 2,2-dimethyl-1,3-dioxolane-4-methanol. EPA has determined that it is appropriate to bridge 2,2-dimethyl-1,3-dioxolane-4-methanol data due to similarities in the manufacturing processes, functional groups/structure, composition, and physical/chemical properties, and among the available human health toxicity and ecological toxicity data of the two substances.

2-Isobutyl-2-methyl-1,3-dioxolane-4-methanol exhibits low levels of acute toxicity via the oral, dermal, and inhalation routes of exposure. In the rat, the oral LD₅₀ 7,000 mg/kg, the dermal LD₅₀ > 2,000 mg/kg, and the inhalation LC₅₀ is > 5.11 mg/L. It is not irritating to the rabbit skin. It is irritating to the rabbit eye. It is not a dermal sensitizer, it is negative for mutagenicity and the DEREK analysis indicates it is unlikely to pose a carcinogenic risk to humans. In a 6-week, repeat-dose toxicity study with reproduction/developmental screening, the maternal, offspring and reproduction NOAELs were 1,000 mg/kg/day.

There were no studies/data directly related to the possible neurotoxicity of 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol. However, evidence of potential neurotoxicity was not observed in functional observation battery (FOB) performed in the developmental study in the rat. Therefore, 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol is not expected to be neurotoxic.

There were no studies/data directly related the immunotoxic potential of 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol. There were no indications of possible immunotoxicity from the data that are available.

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

https://www.epa.gov/pesticides/factsheets/riskassess.html.

The hazard profile of 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol is adequately defined. Overall, 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol is of low acute, subchronic, and developmental toxicity. No systemic toxicity is observed up to 1,000 mg/kg/day. Since signs of toxicity were not observed, no endpoint of concern was identified. Therefore, a qualitative risk assessment for 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol was conducted.

C. Exposure Assessment

1. Dietary exposure from food and feed uses. In evaluating dietary exposure to 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol, EPA considered exposure under the proposed exemption from the requirement of a tolerance. EPA assessed dietary exposures from 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol in food as follows:

Dietary exposure (food and drinking water) to 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol may occur following ingestion of foods with residues from their use in accordance with this exemption. However, a quantitative dietary exposure assessment was not conducted since a toxicological endpoint for risk assessment was not identified.

2. From non-dietary exposure. The term "residential exposure" is used in this document to refer to non-occupational, non-dietary exposure (e.g., textiles (clothing and diapers), carpets, swimming pools, and hard surface disinfection on walls, floors, tables).

2-Isobutyl-2-methyl-1,3-dioxolane-4-methanol may be used in pesticide products and non-pesticide products that may be used in and around the home. Based on the discussion above regarding the low toxicity of the 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol, a quantitative residential exposure assessment was not conducted.

3. 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."

Based on the lack of toxicity in the available data, 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol and its metabolites are not expected to share a common mechanism of toxicity with other chemicals; therefore, section 408(b)(2)(D)(v) does not apply.

D. Safety Factor for Infants and Children

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 Food Quality Protection Act (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.

Because there are no threshold effects associated with 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol, EPA conducted a qualitative assessment. As part of that assessment, the Agency did not use safety factors for assessing risk, and no additional safety factor is needed for assessing risk to infants and children. Based on an assessment of 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol, EPA has concluded that there are no toxicological endpoints of concern for the U.S. population, including infants and children.

E. Aggregate Risks and Determination of Safety

Because no toxicological endpoints of concern were identified, 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 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol residues.

V. Other Considerations

Analytical Enforcement Methodology

An analytical method is not required for enforcement purposes since the Agency is establishing an exemption from the requirement of a tolerance without any numerical limitation.

VI. Conclusions

Therefore, exemptions from the requirement of a tolerance is established for residues of 2-isobutyl-2-methyl-1,3-dioxolane-4-methanol (CAS Reg. No. 5660-53-7) when used as an inert ingredient (solvent/co-solvent) in pesticide formulations applied to growing crops and raw agricultural commodities after harvest under 40 CFR 180.910 and

when used in antimicrobial formulations applied to food-contact surfaces in public eating places, dairy-processing equipment, and food-processing equipment and utensils under 40 CFR 180.940(a).

VII. Statutory and Executive Order Reviews

This action establishes exemptions from the requirement of a tolerance 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 exemptions 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).

VIII. 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.

Marietta Echeverria,

Dated: January 20, 2022.

Acting Director, Registration Division, Office of Pesticide Programs.

Therefore, for the reasons stated in the preamble, EPA is amending 40 CFR chapter I as follows:

PART 180--TOLERANCES AND EXEMPTIONS FOR PESTICIDE CHEMICAL RESIDUES IN FOOD

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

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

2. In §180.910, amend Table 1 to 180.910 by adding, in alphabetical order, an entry for "2-Isobutyl-2-methyl-1,3-dioxolane-4-methanol (CAS Reg. No. 5660-53-7)" to read as follows:

§ 180.910 Inert ingredients used pre- and post-harvest; exemptions from the requirement of a tolerance.

* * * * * *

Table 1 to 180.910

| Inert ingredients | | | Limits | Uses | | | |
|---|---|---|--------|--------------------|---|---|--|
| * | * | * | * | * | * | * | |
| 2-Isobutyl-2-methyl-1,3-dioxolane-4-methanol (CAS Reg. No. 5660-53-7) | | | | Solvent/Co-solvent | | | |
| * | * | * | * | * | * | * | |

3. In §180.940, amend Table 1 to Paragraph (a) by adding, in alphabetical order, an entry for "2-Isobutyl-2-methyl-1,3-dioxolane-4-methanol" to read as follows:

§ 180.940 Tolerance exemptions for active and inert ingredients for use in antimicrobial formulations (Food-contact surface sanitizing solutions).

* * * * * * * (a) * * *

Table 1 to Paragraph (a)

| Inert ingredients | | | CAS | CAS Reg. No. | | Limits | | |
|--|---|---|-----|--------------|---|--------|--|--|
| * | * | * | * | * | * | * | | |
| 2-Isobutyl-2-methyl-1,3-dioxolane-4-methanol | | | | 60-53-7 | | | | |
| * | * | * | * | * | * | * | | |

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