

Memorandum

Date: November 9, 2022

To: Anita Chang, Ph.D., Division of Food Contact Substances (HFS-275)

Through: Mariellen Pfeil, Lead Biologist, Environmental Team, Division of Science and Technology (HFS-255)

Mariellen Pfeil -S Digitally signed by Mariellen Pfeil -S
Date: 2022.11.10 15:57:29 -05'00'

From: Antonetta Thompson-Wood, Physical Scientist, Environmental Team, Division of Science and Technology (HFS-255)

Subject: Finding of No Significant Impact (FONSI) for Food Contact Substance Notification (FCN) 2247: 2-Propenoic acid, 2-methyl-, 1,1'-(1,2-ethanediyl) ester, polymer with phenylmethyl 2-methyl-2-propenoate (CAS Reg. No. 126969-53-7)

Notifier: Amano Enzyme U.S.A. Co., Ltd.

Attached is the FONSI for FCN 2247, which is for the use of 2-Propenoic acid, 2-methyl-, 1,1'-(1,2-ethanediyl) ester, polymer with phenylmethyl 2-methyl-2-propenoate (CAS Registry No. 126969-53-7) as a component of a solid support for immobilizing enzymes that are used to process food oil. This FONSI explains how the Food and Drug Administration (FDA) has met the requirements under the National Environmental Policy Act (NEPA) for this FCN.

After this FCN becomes effective, copies of this FONSI, and the notifier's environmental assessment (EA), dated September 27, 2022, may be made available to the public. We will post digital transcriptions of the FONSI, and the EA on the agency's public website.

Please let us know if there is any change in the identity or use of the food-contact substance.

Antonetta

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Attachment: Attachment: Finding of No Significant Impact (FONSI)

FINDING OF NO SIGNIFICANT IMPACT

Food Contact Substance Notification (FCN) 2247, submitted by Amano Enzyme U.S.A. Co., Ltd. for the use of 2-Propenoic acid, 2-methyl-, 1,1'-(1,2-ethanediyl) ester, polymer with phenylmethyl 2-methyl-2-propenoate (CAS Reg. No. 126969-53-7) as a component of a solid support for immobilizing enzymes that are used to process food oils. The FCS will comprise up to 90% by weight of the finished FCS with immobilized enzyme. The FCS is not for use in contact with infant formula and human milk. Such uses were not included as part of the intended use of the substance in the FCN.

The Office of Food Additive Safety has determined that allowing this notification to become effective will not significantly affect the quality of the human environment and, therefore, an environmental impact statement (EIS) will not be prepared. This finding is based on information submitted by the notifier in an environmental assessment (EA), dated September 27, 2022. The EA was prepared in accordance with 21 CFR 25.40. The EA is incorporated by reference in this Finding of No Significant Impact (FONSI) and is briefly summarized below.

The FCS will be used entirely at industrial sites. It is intended for single use as a solid support in the production of food oils and will not be reused or regenerated. Disposal of the FCS will be by conventional rubbish disposal and, hence, primarily by sanitary landfill or incineration in correspondence with waste distribution profiles outlined in the United States Environmental Protection Agency (US EPA) Advancing Sustainable Materials Management: 2018 Fact Sheet¹. Due to EPA's regulations governing landfills at 40 CFR Part 258, leaching into the environment by food-contact articles manufactured with the FCS is not anticipated. Further, because of the regulations at 40 CFR Part 60, and others, no significant impacts are expected from incineration of the FCS at MWCs. Therefore, no significant impact on the concentrations of and exposures to any substances in air, water, or soil are anticipated. Thus, the use of the FCS as proposed is not expected to result in significant environmental impacts.

The EA also considered the impact of greenhouse gas (GHG) emissions. Based on information provided in a confidential attachment to the EA, the total estimated GHG emissions resulting from the combustion of food-contact articles manufactured with the FCS in this notification is below 25,000 metric tons CO₂ equivalent, the US EPA threshold for mandatory reporting of GHG emissions (40 CFR 98.2). Therefore, no significant environmental impacts are anticipated.

Manufacture of the FCS and its use finished food-contact articles will consume energy and resources in amounts comparable to the manufacture and use of similar products that are already on the market (e.g., solid supports for immobilizing enzymes). Therefore, no net increase in the use of energy and resources from the use and disposal of food-contact articles manufactured with the FCS is expected. No mitigation measures are needed since no significant adverse environmental effects are expected from use and disposal of food-contact articles manufactured with the FCS, nor do we expect significant environmental impacts, which would necessitate alternative actions to those proposed in this FCN. The alternative to not allowing the FCN to become effective would be continued use of materials that the FCS would otherwise replace; therefore, this action would have no significant environmental impact.

¹ https://www.epa.gov/sites/production/files/2020-11/documents/2018_ff_fact_sheet.pdf

As evaluated in the EA, the proposed use of the FCS as described in FCN 2247 will not significantly affect the human environment; therefore, an EIS will not be prepared.

Prepared by Antonetta Thompson-wood -S Digitally signed by Antoetta Thompson-wood -S
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Antonetta Thompson-Wood
Physical Scientist, Environmental Team
Office of Food Additive Safety
Center for Food Safety and Applied Nutrition
Food and Drug Administration

Approved by Mariellen Pfeil -S Digitally signed by Mariellen Pfeil -S
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