



Memorandum

Date: March 7, 2025

From: Biologist, Office of Pre-Market Additive Safety, Environmental Review Team

Subject: Finding of No Significant Impact (FONSI) for Food Contact Substance Notification (FCN) 2424

Notifier: Ningbo TIANAN Biologic Material Co., Ltd

To: Lillian Mawby, Ph.D., Consumer Safety Officer, Office of Pre-Market Additive Safety, Division of Food Contact Substances

Through: Mariellen Pfeil, Lead Biologist, Office of Pre-Market Additive Safety, Environmental Review Team

MARIELLEN PFEIL -  Digitally signed by MARIELLEN PFEIL -S
Date: 2025.03.07 12:01:26 -05'00'

Attached is the FONSI for FCN 2424, which is for the use of Poly((R)-3-hydroxybutyric acid-co-(R)-3-hydroxyvaleric acid) (CAS Reg. No. 92267-82-8) intended for use as a base resin in single-use molded articles. 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 notification becomes effective, copies of this FONSI, and the notifier's environmental assessment (EA) dated November 28, 2024, 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.

Denis Wafula -S  Digitally signed by Denis Wafula -S
Date: 2025.03.07 10:50:31 -05'00'
Denis Wafula, Ph.D.

Attachments: Finding of No Significant Impact

FINDING OF NO SIGNIFICANT IMPACT

Proposed Action: Food Contact Substance (FCS) Notification (FCN) 2424, submitted by Ningbo Tianan Biologic Material Co., Ltd. for the use of Poly((R)-3-hydroxybutyric acid-co-(R)-3-hydroxyvaleric acid) (CAS Reg. No. 92267-82-8) intended for use as a base resin in single-use molded articles. The FCS may be used in contact with all food types under Conditions of Use B through H as described in Tables 1 and 2.¹ 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 November 28, 2024. 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.

Food-contact articles containing the FCS are expected to be disposed by either by landfilling or incineration at municipal solid waste (MSW) combustors. Recycling is not anticipated. Because the FCS is compostable, food-contact articles produced from the FCS may be subject to disposal by composting. However, due to the current nationwide lack of suitable composting facilities, the FCS is not expected to be significantly disposed by composting. It is expected that due to EPA's regulations at 40 CFR Part 258, there will be no significant introduction of the FCS or its components into the environment resulting from land disposal of such articles. Incineration of food-contact articles containing the FCS will not significantly alter the emissions from properly operating MSW combustion facilities and will therefore not cause these facilities to threaten a violation of applicable emissions laws and regulations at 40 CFR Part 60 and/or relevant state and local laws. Based on market volume information provided in the confidential attachment to the EA, total annual emissions of greenhouse gases (GHG) resulting from disposal of items containing the FCS are expected to be below the 25,000 mT GHG reporting threshold described in 40 CFR 98.2. Therefore, no significant impacts are expected from incineration of the FCS at MSW combustion facilities.

Use of the FCS is not expected to result in a net increase in the use of energy and resources, because it is expected to substitute other similar or identical substances already in use. Manufacture of the FCS and its fabrication in food-contact articles will consume energy and resources in amounts comparable to the manufacture and use of similar substances already in use.

No significant environmental impacts are expected from use and disposal of the FCS; therefore, mitigation measures have not been identified. The alternative of not allowing the FCN to become effective would be the continued use of the materials that the subject FCS would otherwise replace; such action would have no significant environmental impact.

¹ <https://www.fda.gov/food/packaging-food-contact-substances-fcs/food-types-conditions-use-food-contact-substances>

As evaluated in the EA, the proposed use of the FCS as described in FCN 2424 is not expected to significantly affect the human environment; therefore, an EIS will not be prepared.

Prepared by

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Denis Wafula, Ph.D.
Biologist, Environmental Review Team
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Human Foods Program
Food and Drug Administration

Approved by

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