

Memorandum

Date: 5/13/24

From: Biologist, Environmental Team, Division of Science and Technology (HFS-255)

Subject: Finding of No Significant Impact (FONSI) for Food Contact Substance Notification (FCN) 2344

Notifier: ADEKA Corporation

To: Stevie Walters, Ph.D., Consumer Safety Officer, Division of Food Contact Notification (HFS-275) **Through:** Mariellen Pfeil, Lead Biologist, Environmental Team, Office of Food Additive Safety (HFS-255)

Mariellen Pfeil -S Digitally signed by Mariellen Pfeil -S Date: 2024.05.15 13:49:10 -04'00'

Attached is the Finding of No Significant Impact (FONSI) for Food Contact Substance Notification (FCN) 2344, which explains how the Food and Drug Administration (FDA) has met the requirements under the National Environmental Policy Act (NEPA) for this FCN.

FCN 2344 is for the use of an [1,1'-Biphenyl]-4,4'-diol, reaction products with 4-cyclohexylphenol and 2,4,6-trichloro-1,3,5-triazine (CAS Reg. No. 2561414-35-3), as a clarifying agent in polypropylene homopolymers and copolymers complying with 21 CFR 177.1520(c), items 1.1, 3.1, and 3.2.

The FCS is for use at levels not to exceed 0.15 weight percent in finished polypropylene homopolymers and copolymers that may contact all food types under Conditions of Use A through H and J (microwave-only, excluding susceptor applications), as described in Tables 1 and 2. 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.

After this notification becomes effective, copies of this FONSI, and the notifier's environmental assessment (EA), dated February 16, 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.

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Brittany Ott

Attachment: Finding of No Significant Impact (FONSI)

FINDING OF NO SIGNIFICANT IMPACT

Proposed Action: Food Contact Substance Notification (FCN) 2344, submitted by ADEKA Corporation for the use of [1,1'-Biphenyl]-4,4'-diol, reaction products with 4-cyclohexylphenol and 2,4,6-trichloro-1,3,5- triazine) as a clarifying agent in polypropylene homopolymers and copolymers complying with 21 CFR 177.1520(c), items 1.1, 3.1, and 3.2, excluding contact with infant formula and human milk, as specified below.

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 February 16, 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.

The FCS is expected to be entirely incorporated into and remain with the finished food-contact polymer and will be sold to manufacturers engaged in the production of the finished food contact articles. Any waste materials generated in this process, e.g. plant scraps, are expected to be disposed of as part of the manufacturer's overall non-hazardous solid waste in accordance with established procedures. Items manufactured with the FCS are expected to be utilized in patterns corresponding to the population density and then disposed of nationwide via the disposal patterns described in the U.S. Environmental Protection Agency's (EPA) report, *Advancing Sustainable Materials Management: 2018 Fact Sheet.*¹ As the FCS is expected to be primarily disposed of through combustion or landfilling (i.e. not recycled, composted, or handled through other food management pathways), the EA indicates that 19.1% of the food-contact materials will be combusted annually, with the remainder being land-disposed.

Post-consumer disposal of food-contact articles manufactured with the FCS will be via landfill or incineration at municipal waste combustors (MWCs) complying with 40 CFR Parts 258 and 60, respectively. The expected annual carbon dioxide equivalent emissions, calculated according to the confidential annual market volume, are below the 25,000 metric ton EPA reporting threshold (40 CFR 98).

The FCS does not readily volatilize; as such, it is unlikely to present any impact on the atmospheric environment. Virtually no leaching of potential migrants from the finished food-contact article into aquatic or terrestrial environments indicates that there is no anticipated significant impact on environmental concentrations of the FCS, including during landfill disposal of the food-contact articles. Thus, no significant impact on the concentrations of and exposures to any substances in air, water, or soil are anticipated. Further, because of EPA's regulations governing emissions from MWCs, no significant impacts are expected from incineration of the FCS at MWCs.

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 replace, to a certain extent, other substances already in use. Manufacture of the FCS will consume energy and resources in amounts comparable to the manufacture and use of materials already in use.

Advancing Sustainable Materials Management: 2018 Tables and Figures updated on December 2020 (https://www.epa.gov/sites/default/files/2021-01/documents/2018 tables and figures dec 2020 fnl 508.pdf).

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.

As evaluated in the EA, the proposed use of the FCS as described in FCN 2344 is not expected to significantly affect the human environment; therefore, an EIS will not be prepared.

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Prepared by

Brittany Ott, Ph.D.

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Approved by

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