



Netherlands Food and Consumer
Product Safety Authority
*Ministry of Agriculture,
Nature and Food Quality*

National Institute for Public Health
and the Environment
Ministry of Health, Welfare and Sport

Alternatives for bisphenol A (BPA) used in Food Contact Materials

National Institute for Public Health and the Environment (RIVM)

Netherlands Food and Consumer Product Safety Authority (NVWA)



BPA alternatives in FCM

- › Research project RIVM commissioned by NVWA
- › Relevant due to (future) legal restrictions for BPA
 - Accelerated due to new HBGV as proposed by EFSA?
- › Indications that BPA analogues have similar (or worse) toxicological properties: regrettable substitution?
- › **Overview of actual use is missing!**



1. Which functional BPA alternatives are used in food contact materials?

- › Follow up of previous RIVM work (den Braver- Sewradj et al. 2020¹)
- › In 2022 >300 substances that are mentioned as possible drop-in BPA alternatives were identified in (grey) literature, including:
 - Assessment of regulatory needs (ECHA)
 - Identification of Risk Assessment Priorities (IRAP) (Health Canada)
 - Notice with respect to bisphenol A (BPA) and BPA structural analogues and functional alternatives (Health Canada)
 - Bewertung des endokrinen Potenzials von Bisphenol Alternativstoffen in umweltrelevanten Verwendungen (UBA)

¹ den Braver-Sewradj et al. Substitution of bisphenol A: a review of the carcinogenicity, reproductive toxicity, and endocrine disruption potential of alternative substances. Crit Rev Toxicol. 2020 Feb;50(2):128-147. doi: 10.1080/10408444.2019.1701986.



1. Which functional BPA alternatives are used in food contact materials?

- › Selection and prioritization of currently used alternatives based on:
 - Authorization for plastic FCM or can coatings
 - Input from material expert on functional substitutes based on chemical nature
 - REACH registration status, including production volume
 - Information from stakeholders (industry, NGO's)



2. What is known about toxicity and migration of prioritized alternatives?

- › Toxicity data retrieved from EFSA assessments and ECHA's dissemination database, complemented with a literature search (previous RIVM work (den Braver- Sewradj et al. 2020)).
- › Migration data from FCCmigex Database / scientific literature



Final product

- > Overview of functional BPA alternatives that are currently used in FCM
- > Overview of available data/data gaps on toxicity and migration for prioritized BPA alternatives
- > **Scientific publication is foreseen beginning of 2024**