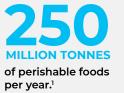


Aseptic packaging and technology: Making perishable foods safe and available

We rely on everyday food items for our daily nutrition. However, many of these food and beverages such as milk, juices and plant-based alternatives are highly perishable with short shelf lives, thereby presenting **many sustainability challenges across the value chain**.

The EU produces





If not aseptically processed and packed, perishables must be kept in the cold chain, with a shorter shelf life.





Failure to follow precautions may pose risks to human health.

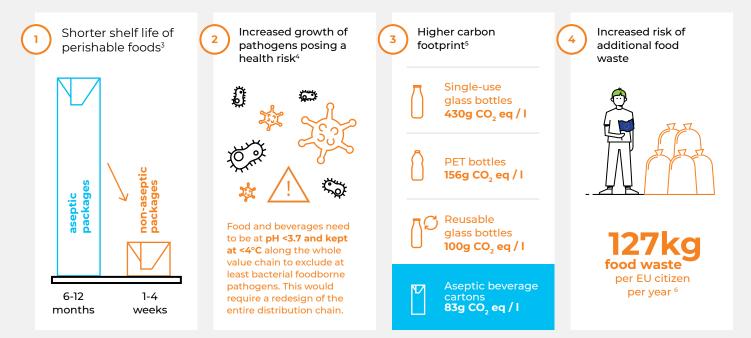
European policymakers now face the challenge of regulating packaging for this type of food **in line** with the EU Green Deal ambitions,² aiming to make food systems sustainable and resilient, while supporting reduction in food loss, food waste and carbon footprint.



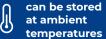
The aseptic process of heat treatment, filling and packaging at the food producer enables the absence of harmful microorganisms across the entire distribution chain until consumption.

Everything in the production chain must be commercially sterile. That includes food and packaging materials, all machinery and the environment in which the food is packaged.

Without aseptic packages:



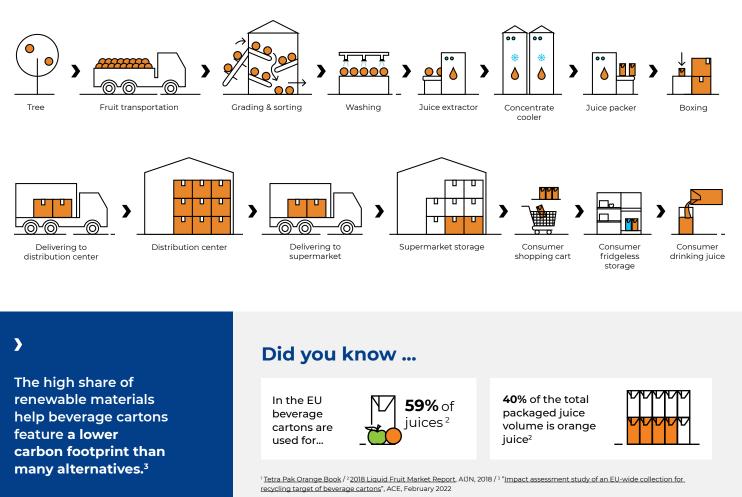
¹Key figures on the European food chain, Eurostat, 2021 /² A European Green Deal, European Commission, 2019 /³ Extended shelf life milk-advances in technology, Rysstad and Kolstad, 2006 /⁴ Growth of food-borne pathogens Listeria and Salmonella and spore-forming Paenibacillus and and Bacillus in commercial plant-based milk alternatives, Klaudia Bartula, Máire Begley, Noémie Latour, Michael Callanan, FOOD MICROBIOLOGY, 2023 / ⁵ <u>Impact assessment study of an EU-wide collection for recycling target of beverage cartons</u>, ACE, February 2022 / ⁶ Avoiding food becoming waste in households - the role of packaging in consumers' practices across different food categories, Williams, Lindström, Trischler, Wikström and Rowe, Journal of Cleaner Production, 2020.





Why do European juice and nectar producers prefer aseptic filling technology, combined with beverage cartons?

Aseptic juice processing and packaging systems **help extend the shelf life of perishable foods**, safeguarding against microbial spoilage and quality deterioration while minimising loss and waste along the packaging and distribution process.¹



Aseptic filling technology combined with innovative packaging, including aseptic beverage cartons, keeps food and beverages safe and flavourful for 6-12 months, without the need of refrigeration or preservatives.

