

## ENVIRONMENTAL AND PRODUCT INFORMATION SHEET

**Product**

Paper straws

**Material**

Paper, glue, printing inks

**Packaging**

Inner: Polyethylene (PE)

Outer: Corrugated board box

**Field Of Application**

The straws are safe to use with all kinds of beverages up to 90 °C from a food contact perspective. However, it is not recommended to use them with hot drinks because of deteriorating performance and stability as well as due to the risk of burn injuries.

Limitations of the material:

- Paper is fibrous material and the as the surface of the straws are untreated, they are not suitable for long-term use.
- The straws are not suitable to be used in a microwave oven.

Different kinds of food can have an impact on the physical behaviour of the straw. Duni's recommendation is for the customer to test their application for their needs.

**EC Directive 94/62/EC on Packaging and Packaging Waste**

The packaging complies with all essential requirements as defined by 94/62/EC.

For example, minimum adequate amount of packaging, limitation of heavy metal content, recyclable through at least one of the following: reuse, material recovery, energy recovery or composting.

**Environmental Aspects****Product**

Paper is made from FSC-certified wood, which is a renewable resource. The pulp is unbleached.

In the manufacturing of the straws PFAS (per- and polyfluoroalkyl substances) is **not** being used in any step.

**Packaging**

PE foil is made by refining of mineral oil or natural gas. The polymer consists simply of carbon and hydrogen. The corrugated board box is to a large extent made of recycled fibres.

**Product Safety**

The product fulfils the following:

- EU Regulation 1935/2004/EC, Material and products intended for contact with foodstuff.
- EU Regulation 2023/2006/EC, Good Manufacturing Practice.
- The paperboard fulfils the German recommendation BfR XXXVI.
- EU Timber Regulation 995/2010 (EUTR)
- Duni manufacturing units are certified according to the international quality system ISO 9001. They have also implemented the environmental management system ISO 14001.

**Management of Used Products**Recycling

The product may be recycled with cardboard and paper materials. However, recycling depends on collection, sorting and general material acceptance. Always consult with a local waste handler for recycling recommendations.

Recycling of the plastic and the corrugated board is possible for producing new products.

Energy Recovery

All the materials are suited for energy recovery. Complete combustion gives mainly rise to carbon dioxide and water. The energy content of plastics/paper is comparable to that of oil/ wood.

**Validity**

This is issued 2023-04-11. It is revised when there is a change in the manufacturing process, in the product or in legislation.