

## ENVIRONMENTAL AND PRODUCT SAFETY DATA SHEET

### **Product**

Duni EcoEcho® Paper cup and soup bowls

### **Raw Material**

Paper board PLA-lamination

### **Additive**

Printing inks – water based

### **Packaging**

Inner: PE

Outer: Carton

### **Field Of Application**

The cups can be used for hot and cold beverages. The article can be used for hotfill and temperatures up to 70°C for 2 hours.

The products should not be used in a microwave oven.

### **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**

Duni EcoEcho® cups are manufactured from virgin pulp and PLA (poly lactid acid) which origins from renewable sources. The paper is from renewable resources.

#### **Packaging**

PE is manufactured from mineral oil or natural gas. The polymer consists simply of carbon and hydrogen.

The corrugated board is unbleached and to a large extent made from recycled fibres.

### **Product Safety**

The products fulfill the following:

- EU Regulation 10/2011/EC with amendments
- EU Regulation 1935/2004/EC
- EU Regulation 2023/2006/EC
- The paper board fulfills the German recommendation BfR XXXVI.
- Migration tests on the article material performed by an independent institute showed that under appropriate test conditions, overall and specific (when relevant) migration falls considerably below the limit given by regulation 10/2011. (For further details, see *Declaration of Compliance*).
- 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**

#### **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.

#### **Compostability**

The product is compostable in industrial facilities and complies with EN standard 13432:2000 for packaging recoverable through composting and biodegradation. Check with the local waste handling company.

#### **Recycling**

Recycling of the plastic and the corrugated board is possible for producing new products. Check with the local recycling company.

#### **Validity**

This is a copy of a document issued 2019-06-20. It is normally updated every second year or when there is a change in the manufacturing process, in the product or in legislation. To make sure that you have the latest edition, contact Duni AB.

## DECLARATION OF COMPLIANCE

Description	Material	Article Number
Cups	Paper/PLA	<b>170634</b>

Duni declares that the article meets the requirements of:

- EU Regulation 10/2011/EC with amendments
- EU Regulation 1935/2004/EC
- EU Regulation 2023/2006/EC
- BfR XXXVI

### Overall migration (1)

According to the above mentioned regulations, the overall migration does not exceed 10 mg/dm<sup>2</sup> or 60 mg/kg.

### Specific migration (2)

To our knowledge the product does not contain any monomers or additives with restrictions to regulation 10/2011/EC.

### Area of use

Based on the migration tests and Declaration of Compliance, the article can be used for hot and cold beverages. The article can be used for hotfill<sup>1</sup> and temperatures up to 70°C for 2 hours.

The cups should not be used in a microwave oven.

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<sup>1</sup> Definition from COMMISSION REGULATION (EU) 2016/1416: "hot-fill" means the filling of any article with a food with a temperature not exceeding 100 °C at the moment of filling, after which the food cools down to 50 °C or below within 60 minutes, or to 30 °C or below within 150 minutes.



**Test conditions:**

Migration tests on the article's material performed by an independent institute showed that under the following test conditions overall migration (see 1.) and specific migration (see 2.; SML) fall considerably below the respective limits given by regulation 10/2011.

<i>Overall migration</i>	<i>3% Acetic acid</i>	<i>2h 70°C</i>
	<i>10% Ethanol</i>	<i>2h 70°C</i>
	<i>Olive oil</i>	<i>2h 70°C</i>

The ratio is 6 dm<sup>2</sup>/kg.

No substances of dual use are present in the product.

The product does not contain any functional barrier.

According to the document in our possession, Primary Aromatic Amines are below 10 PPb.

Please be advised that Duni AB does not add anything into the product.

This document of compliance is based on:

Documentation from suppliers

Global migration test