

## ENVIRONMENTAL AND PRODUCT SAFETY DATA SHEET

### **Product**

*Paper cups Bio*

### **Raw Material**

Paper board  
Poly lactid acid (PLA) based on corn starch  
Polybutylene succinate (PBS)

### **Additives**

Printing inks –water based

### **Packaging**

Inner: Polyethylene PE  
Outer: Corrugated board box

### **Field Of Application**

The paper cups are suitable for hot or cold (non-alcoholic) drinks up to 90 °C.

### **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 wood, which is a renewable resource. The pulp is unbleached.  
Polylactid acid is a polymer produced from corn starch.

#### **Packaging**

Polyethylene is a polymer produced from refining of mineral oil or natural gas. The polymer consists simply of carbon and hydrogen. The corrugated board box is made from wood, which is a renewable resource.

### **Product Safety**

The product/raw materials fulfil the following:

- The paper board fulfils BfR-XXXVI Papiere, Kartons und Pappen für den Lebensmittelkontakt. (January 2002).

- EU-directive 2002/72/EC "Plastic products intended to use for foodcontact".
- The cups have been tested regarding global migration.
- Duni manufacturing units are certified according to the international quality system ISO 9001 and 9002. They have also implemented or will implement 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 2010-08-26. 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, Environmental Affairs.