



## ENVIRONMENTAL AND PRODUCT SAFETY DATA SHEET

### **Product**

Dunicel® Elegance

### **Raw Material**

Pulp

### **Additives**

Color, Glue, Filler  
Water repellent agent (only some Dunicel products)

### **Packaging**

Inner: Plastic film of polyethylene, (PE) or  
Polypropylene (PP)  
Outer: Corrugated board box

### **Field Of Application**

The products is intended for enhancing the meal and  
serving environment.

### **Manufacturing**

The tissue paper is produced from virgin cellulose  
fibers. No fluorescent whitening agents (FWA) are  
added. A few layers of tissue paper, white or colored  
are glued together with filler. Decor printing is made  
in a printing machine.

### **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**

The tissue in the Dunicel products is manufactured  
from Totally Chlorine Free pulp (TCF) i.e. bleaching  
chemicals used are oxygen, hydrogen peroxide and if  
required ozone. Or Elemental Chlorine Free pulp  
(ECF) i.e. pulp bleached without chlorine gas with  
only virgin fibers.

Coloring of the pulp is made with organic dyes. The  
glue and printing inks are water based.

The product is FSC certified according to "Mixed  
Sources" certification number DNV-COC-000148

### **Packaging**

PE and PP are made from refined natural gas or  
mineral oil. The polymers consist simply of carbon  
and hydrogen.

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

### **Product Safety**

- The products fulfil BgVV, Empfehlungen des Bundesinstitutes für gesundheitlichen Verbraucherschutz und Veterinärmedizin, A0, Hinweise zur Beurteilung von Hygienepapieren.
- The printing inks fulfil BgVV, Empfehlungen des Bundesinstitutes für gesundheitlichen Verbraucherschutz und Veterinärmedizin, Part C Bedarfsgegenständeverordnung § 3 Anlage 1 Nr. 7. Azo dyestuffs that may split in carcinogenic amines are not used.
- The dyes do not contain heavy metals such as mercury, cadmium, lead or hexavalent chromium.
- Dyes and printing inks are tested according EN 646 (Determination of colorfastness of dyed paper and board) and has been found to have good fastness.
- 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.

#### **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 2013-01-01. 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.