

**Bellaterra** : 29<sup>th</sup> September 2005

**File Number** : 5032792- English translation

**Petitioner** : **TORRASPAPEL S.A.**  
Ctra. De França, s/n  
17840 Sarrià de Ter  
Girona

### **RECEIVED MATERIAL**

Material to be tested received on: 5<sup>th</sup> September 2005

The sample has been presented according the directions of the petitioner, as a paper with the reference SOPORTE KRAFT manufactured by TORRASPAPEL S.A.

### **REQUESTED TEST**

Accordance of the product with requirements of:

1. Directive 2002/95/CE of the European Parliament and Council of 27<sup>th</sup> January of 2003 about restriction of the use of certain hazardous substances in electrical and electronic equipment.
  2. Directive 2003/11/CE of the European Parliament and Council of 6<sup>th</sup> February of 2003 about the limitation of commercialization and use of certain hazardous substances and preparations (Ether of Pentabrominated Diphenyl, Ether of Octabrominated Diphenyl).
- Determination of Cadmium (Cd), Chromium (Cr), Lead (Pb) and Mercury (Hg).
  - Determination of the presence of Polybrominated biphenyl's (PBB) or Polybrominated diphenyl ethers (PBDE).

### **TEST METHOD**

Determination of Lead, Chromium, Cadmium, and Mercury according to the EN 1122.  
For Mercury has been used the same method, but reflux mineralitation.

Used Technique: Inductively Coupled Plasma Spectrometry.

Determination of Br to determinate de presence of PBB and PBDE.. X-Rays Fluorescence Spectrometry.

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**RESULTS**

Tested on:

Start: 19<sup>th</sup> September 2005

End: 29<sup>th</sup> September 2005

	<b>SOPORTE KRAFT</b>
<b>Chromium (Cr)</b>	Lower than 5 ppm
<b>Lead (Pb)</b>	Lower than 5 ppm
<b>Cadmium (Cd)</b>	Lower than 5 ppm
<b>Mercury (Hg)</b>	Lower than 5 ppm
<b>Polybrominated Biphenyl's (PBB) and Polybrominated Diphenyl Ethers (PBDE)</b>	Lower than 1000 ppm
<b>Ether of Pentabrominated Diphenyl</b>	Lower than 1000 ppm
<b>Ether of Octabrominated Diphenyl</b>	Lower than 1000 ppm

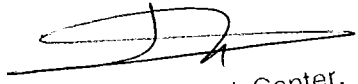
Note: Lower than 5 ppm (mg/Kg) and lower than 1000 ppm (mg/Kg) are the limits of detection of the used technique.

Realized the qualitative analysis by x-rays fluorescence technique, it has not been detected the presence of Bromine. For that reason it can be discarded the presence of PBB or PBDE.

To see Annex I.

**CONCLUSIONS**

According to the obtained results and the comments of Annex I, the analyzed sample of **SOPORTE KRAFT** paper manufactured by **TORRASPAPEL S.A.** is in accordance with evaluation requirements fixed on Article 4 point 1 of Directive 2002/95/CE of the European Parliament and Council of 27<sup>th</sup> January of 2003 about restriction of the use of certain hazardous substances in electrical and electronic equipment, the same way as Directive 2003/11/CE of the European Parliament of Council 6<sup>th</sup> February of 2003 about the limitation of commercialization and use of certain hazardous substances and preparations (Ether of Pentabrominated Diphenyl, Ether of Octabrominated Diphenyl).

  
Isabel Garmendia Arnau  
Technical Responsible  
Materials and Industrial Processes  
LGAI Technological Center S.A.

  
Cristina Esteban Perlas  
Materials Unit Responsible  
Materials and Industrial Processes  
LGAI Technological Center S.A.

The results refer solely to the sample, product or material delivered to the Laboratory, as indicated in the section corresponding to the description of the Material Received, and tested under the conditions indicated herein.

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**ANNEX 1**

Directive 2002/95/CE don't establish maximum quantity allowed in connection with analyzed elements, quote verbatim, on article 4 that: *"tested sample hasn't contains cadmium, chromium, lead and mercury"* even though establish exceptions on annex. Of article 5, point 1, of Directive 2002/95/CE, section a) says *"establishing as necessary maximum concentration values up to which the presence of the substances referred to in Article 4(1)"* according to article 7 point 2, *"will be established by a committee"*.

On July of 2004 was formed a commission which made the following proposal:

Maximum value of concentration on 0,1% on weight on homogeneous materials for lead, mercury, hexavalent chromium, PBB and PBDE, and 0,01% on weight for cadmium. To see Table 1.

TABLE 1

	Maximum Values
Lead (Pb)	1000 ppm
Hexavalent Chromium (CrVI)	1000 ppm
Mercury (Hg)	1000 ppm
Cadmium (Cd)	100 ppm
Polybrominated Phenyls (PBB)	1000 ppm
Polybrominated Phenyls Ethers (PBDE)	1000 ppm

So, based on the results, the analyzed sample is according with Directive 2002/95/CE