

## Material Declaration Report

Issued Date: 6 December 2010

Company: PT. Riau Andalan Kertas

ALS Scandinavia Report No: L1015808, T1010701  
Product Name: Paper-Acacia plantation grown pulpwood  
Paper-Mixed Tropical hardwood  
Sample received: 17 August, 2010  
Sample completed: 15 September, 2010

**Material Declaration Report**

The material declaration report is based on information from analyses performed by the laboratories ALS Scandinavia AB and GBA.

**Test methods:**

1. Analyses were carried out according to USEPA methods 200.7 (ICP-AES) and 200.8 (ICP-SFMS) respectively. With reference to IEC 62321:2008
2. Analyses according to GC-MSD. With reference to IEC 62321:2008.

**Results, Heavy Metals:**

Test method: 1

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Element	Unit	LOR	Paper-Mixed Tropical Hardwood	Paper-Acacia plantation grown pulpwood
			ALS Scandinavia ID: U10584929	ALS Scandinavia ID: U10584930
Cadmium (Cd)	mg/kg	<0.005	0.184	0.24
Chromium (Cr)	mg/kg	<0.03	0.637	0.659
Mercury (Hg)	mg/kg	<0.01	N.D.	N.D.
Lead (Pb)	mg/kg	<0.04	0.539	0.102

LOR= Limit of reporting

N.D.= Not Detected

**Results, Flame Retardants:**

Test method: 2

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Test Items	Unit	LOR	Paper-Mixed Tropical Hardwood	Paper-Acacia Plantation grown pulpwood
			ALS Scandinavia ID: O10332761	ALS Scandinavia ID: O10332762
tetraBDE	mg/kg	<10	N.D.	N.D.
PBDE 47	mg/kg	<1.0	N.D.	N.D.
pentaBDE	mg/kg	<10	N.D.	N.D.
PBDE 99	mg/kg	<1.0	N.D.	N.D.
PBDE 100	mg/kg	<1.0	N.D.	N.D.
hexaBDE	mg/kg	<20	N.D.	N.D.
heptaBDE	mg/kg	<20	N.D.	N.D.
oktaBDE	mg/kg	<25	N.D.	N.D.
nonaBDE	mg/kg	<50	N.D.	N.D.
dekaBDE	mg/kg	<50	N.D.	N.D.
diBB	mg/kg	<10	N.D.	N.D.
PBB 15	mg/kg	<1.0	N.D.	N.D.
triBB	mg/kg	<10	N.D.	N.D.
tetraBB	mg/kg	<10	N.D.	N.D.
PBB 49	mg/kg	<1.0	N.D.	N.D.
PBB 52	mg/kg	<1.0	N.D.	N.D.
pentaBB	mg/kg	<10	N.D.	N.D.
PBB 101	mg/kg	<1.0	N.D.	N.D.
hexaBB	mg/kg	<20	N.D.	N.D.
PBB 153	mg/kg	<5.0	N.D.	N.D.
dekaBB	mg/kg	<50	N.D.	N.D.

LOR= Limit of reporting

N.D.= Not Detected

**Comments:**

Analyses of hexavalent chromium was not performed due to low content of total chromium.

**Statement of compliance:**

Performed analyses show that both materials are in compliance with the RoHS directive.

Threshold limit values of RoHS directive:

- Cd 100 mg/kg
- Hg 1000 mg/kg
- Pb 1000 mg/kg
- Cr6+ 1000 mg/kg
- PBB/PBDE 1000 mg/kg

Reviewed by:

*Karin Nordqvist 2010-12-09*

Karin Nordqvist

Quality manager