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CERTIFICATE OF ANALYSIS

P.O. #: 4500274993
Date Received: March 25, 2004
Material: 423
Description: Labels
Specification: EU Directive 2002/95/EC (RoHS), proposed maximum concentration values (MCVs)

I. SUMMARY

The 423 Labels were tested for lead, cadmium, mercury, hexavalent chromium, and bromine.

Based on the results, **sample 423 complies** with the MCVs for lead, cadmium, mercury, hexavalent chromium, PBBs and PBDEs as proposed by the EU Commission in a pending amendment to the RoHS Directive.

II. RESULTS


Element	Sample ID# 423 (ppm)	RoHS MCVs
Cd	<4	100 ppm
Pb	46	1000 ppm
Cr ⁶⁺	<0.01	1000 ppm
Hg	<0.001	1000 ppm
Br	<40	1000 ppm*

Results in ppm (ppm = parts per million = mg/kg); 0.1000% by wt = 1000 ppm.

Methods: **Cd, Pb:** CAP-046A (ICP-AES), BS EN 1122:2001 (modified),
Cr⁶⁺: GMW3034, April 2001; modified to include calibration curve to allow for report of observed values in ppm. GMW3034 is based upon ISO 3613.
Br: Motorola Material Assay Procedure 12G13933A20 (04-12-01 revision)
Hg: Direct Mercury Analysis (DMA), as described in EPA Method 7473.

*The limit is for PBBs and PBDEs; based on the result, the sample does not contain any intentionally added PBBs or PBDEs and the concentrations are below the MCVs.

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