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Fürth, 09.11.2009

Test Report No. FUHL0923584

Testing of material samples for ordered parameters

Arrival in lab: 28.10.2009; processing time: 28.10. – 09.11.2009
Head of analytical department Umweltanalytik/Warenprüfung: Kerstin Scharrer

General note: Copying this test report partially is permitted only in agreement with the contracted lab. The tests results refer only to the tested item.
This report consists of 3 pages.
The test method signed with * is not listed in the attachment of the accreditation certificate.

Sample description: key ring, inside marked with Thomas 500187492

total weight 9 g

- Test results see next pages -

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Sample description: key ring, inside marked with Thomas 500187492

Tested component parts and weight:
CS = combined sample

CS	Sample description:	Matrix	Weight in g	Percentage of the whole product
1	CS I	plastic / metal	9	100 %

Test results

n.d. = not detectable

1. Heavy metals after total digestion in %

Method: ICP OES DIN EN ISO 11885 (E22)
Plastic and Metal: two stage digestion: cont. HNO_3 + H_2O_2, inverse aqua regia solution
Plastic: microwave digestion (HNO_3)
Metal: aqua regia solution: DIN ISO 11466:1997-06
Detection Limit: 0.01%

parameter	CS I
Lead (Pb)[1)]	n.d.
Cobalt (Co)	n.d.
Arsenic (As)	n.d.

[1)]: referring to the SVHC list lead is just relevant if arsenic is detected.

By this test the presence resp. a concentration greater than 0,1% of the whole product of the following substances can be excluded:

Substances	CAS-No.
Cobalt dichloride	7646-79-9
Diarsenic pentaoxide	1303-28-2
Diarsenic trioxide	1327-53-3
Lead hydrogen arsenate	7784-40-9
Triethyl arsenate	15606-95-8

2. Chromium VI in %

Method: Plastic and composite material: alkaline extraction according to DIN EN 62321:2006-07*
Textile: Extraction with acid sweat solution according to DIN EN ISO 105-E04: 1996, detection by IC
Leather: DIN EN ISO 17075: 2008-02 with IC/UV-VIS Detection
Metal: boiling water extraction according to DIN EN 62321:2006-07*
Detection Limit: 0.001%

CS I	n.d.

By this test the presence of sodium dichromate (CAS No. 7789-12-0) can be excluded.

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Sample description: key ring, inside marked with Thomas 500187492

3. Compounds according SVHC – list of 28th of October 2008, in %

Method: Extraction with organic solvent, measurement GC/MS*
Detection Limit: 0.05%

Substance	CAS-No.	CS I
Anthracene	120-12-7	n.d.
4,4'- Diaminodiphenylmethane	101-77-9	n.d.
Dibutylphthalate (DBP)	84-74-2	n.d.
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	n.d.
Bis-(2-ethylhexyl)phthalate (DEHP)	117-81-7	n.d.
Hexabromocyclododecane (HBCDD)	25637-99-4	n.d.
Short chain chloroparaffins C10-C13	85535-84-8	n.d.
Tributyl tin oxide	56-35-9	n.d.
Benzylbutylphthalate (BBP)	85-68-7	n.d.

Conclusion:
In the sample were no SVHC in a concentration greater than 0.1% detected. So there are no obligations according to Art. 33 REACH-regulation.

Intertek Consumer Goods GmbH
Warenprüfung • Umweltanalytik • Ingenieurleistung

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