

TEST REPORT: 7191022853-CHM12-02A-TSL

Date: 11 DEC 2012

Client's Ref:

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PSB Singapore

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SUBJECT

Overall Migration Test for "Nitrile Powder Free" Sample

Attn : Ms Siti Fatma binti Abd. Karim

SAMPLE SUBMISSION DATE

08 Dec 2011

DESCRIPTION OF SAMPLE

One packet of glove sample labelled as follows was received. The test was confirmed to be analysed on 15 Dec 2011.

1. Product : Nitrile Powder Free – F18
Reference Number : RA035/12/2011

DATE OF ANALYSIS

27 Dec 2011 – 11 Jan 2012

METHOD OF TEST

The sample was analysed for the following tests according to Commission Regulation (EU) No 10/2011:

1. Preparation of Test Specimen

Only the exterior of the glove sample was performed for the test.



TÜV SÜD PSB

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Singapore 118221

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3 Science Park Drive, #04-01/05
The Franklin, Singapore 118223
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METHOD OF TEST (cont'd)

2. Overall Migration Content with Aqueous Food Simulant (20% Ethanol)

According to BS EN 1186-7:2002 – Test Methods for overall migration into aqueous food simulants using a pouch.

RESULTS

Table 1 : Overall Migration Content with Food Simulant for the “Nitrile Powder Free –F18, Sample

Type of Simulant	Testing Condition	Surface Area (dm ²)	Volume of Extractant (ml)	Overall Migration (mg/dm ²)	Commission Regulation (EU) No 10/2011 Requirement for Overall Migration Content (mg/dm ²)
1. 20% Ethanol	40 °C, 2 hours	5.19	250	3.0	<10

Based on the above result, the “Nitrile Powder Free- F18” sample meets the overall migration requirement under Commission Regulation (EU) No 10/2011 – “Plastic materials and articles shall not transfer their constituents to foodstuffs in quantities exceeding 10 milligrams of total constituents released per dm² of food contact surface (mg/dm²) (overall migration limit)”.

MS TAN SER LING
TECHNICAL EXECUTIVE

DR ZHANG YI
PRODUCT MANAGER
MICROCONTAMINATION DIAGNOSIS
CHEMICAL & MATERIALS

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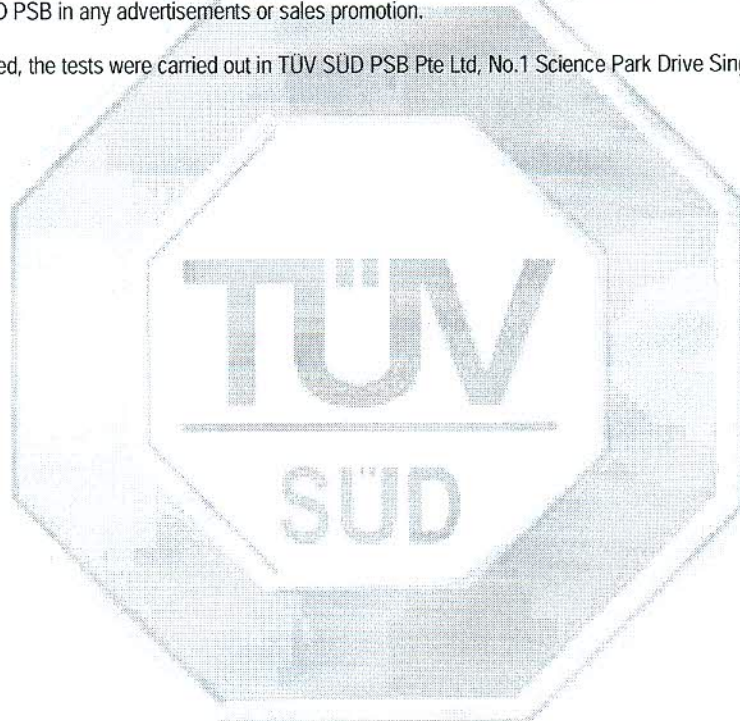


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METHOD OF TEST (cont'd)

2. Overall Migration Content with Aqueous Food Simulant (50% Ethanol)

According to BS EN 1186-7:2002 – Test Methods for overall migration into aqueous food simulants using a pouch.

RESULTS


Table 1 : Overall Migration Content with Food Simulant for the “Nitrile Powder Free –F18, Sample

Type of Simulant	Testing Condition	Surface Area (dm ²)	Volume of Extractant (ml)	Overall Migration (mg/dm ²)	Commission Regulation (EU) No 10/2011 Requirement for Overall Migration Content (mg/dm ²)
1. 50% Ethanol	40 °C, 2 hours	5.24	250	8.9	<10

Based on the above result, the “Nitrile Powder Free- F18” sample meets the overall migration requirement under Commission Regulation (EU) No 10/2011 – “Plastic materials and articles shall not transfer their constituents to foodstuffs in quantities exceeding 10 milligrams of total constituents released per dm² of food contact surface (mg/dm²) (overall migration limit)”.



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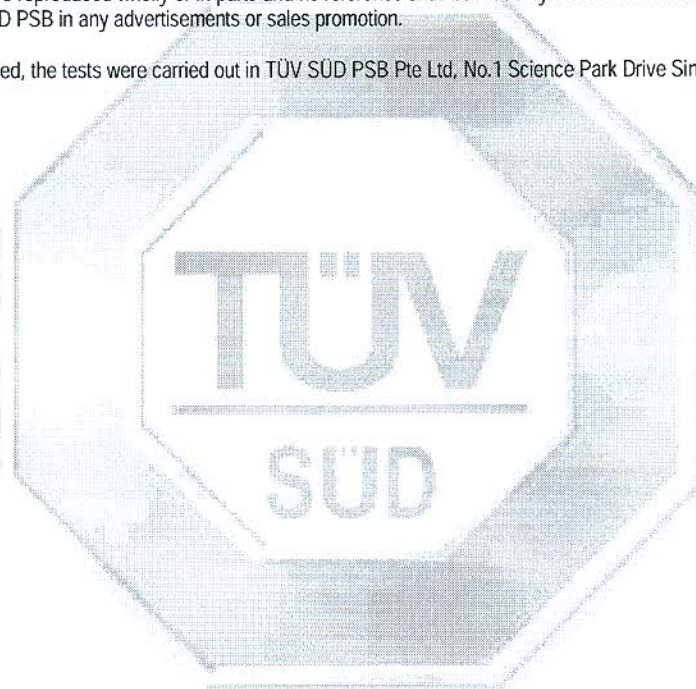
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METHOD OF TEST (cont'd)**2. Overall Migration Content with Fatty Food Simulant (Olive Oil):**

According to BS EN 1186-6:2002 – Test Methods for overall migration into olive oil by using a pouch.

RESULTS**Table 1 : Overall Migration Content with Food Simulant for the “Nitrile Powder Free –F18, Sample**

Type of Simulant	Testing Condition	Surface Area (dm ²)	Volume of Extractant (ml)	Overall Migration (mg/dm ²)	Commission Regulation (EU) No 10/2011 Requirement for Overall Migration Content (mg/dm ²)
1. Vegetable Oil (Olive Oil)	40 °C, 2 hours	5.19	250	<1.0	<10

Based on the above result, the “Nitrile Powder Free- F18” sample meets the overall migration requirement under Commission Regulation (EU) No 10/2011 – “Plastic materials and articles shall not transfer their constituents to foodstuffs in quantities exceeding 10 milligrams of total constituents released per dm² of food contact surface (mg/dm²) (overall migration limit)”.

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