

TEST REPORT: 719169967-CHM10-07-CSY

Date: 02 MAR 2010

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SUBJECT

Evaluation of "VINYL FRESH"

CLIENT

KCC PAINTS SDN BHD
Lot 13, Jalan Anggerik Mokara 31/54,
Seksyen 13, Kota Kemuning,
40460 Shah Alam
Selangor D.E.
Malaysia

Attn : Mr Theng

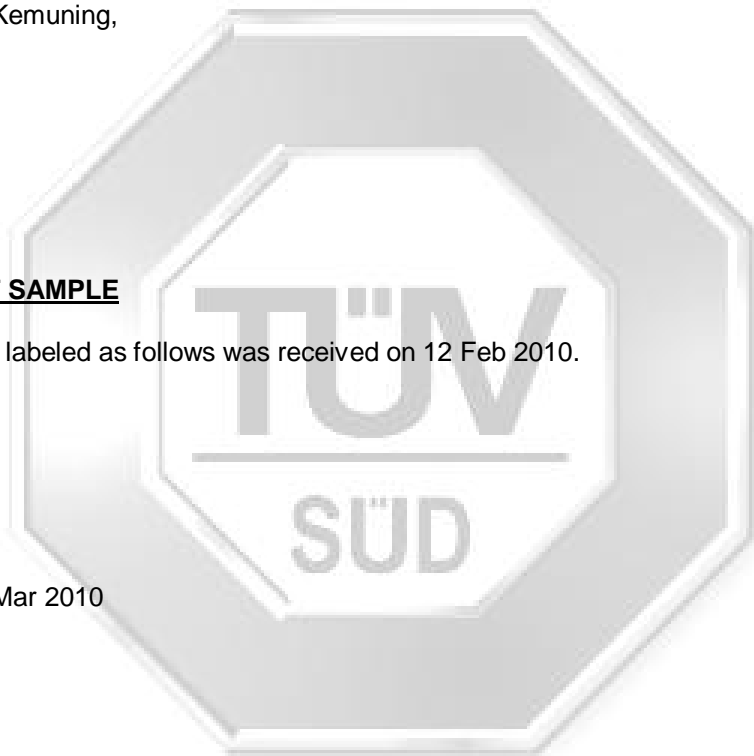
DESCRIPTION OF SAMPLE

One can of sample labeled as follows was received on 12 Feb 2010.

VINYL FRESH

DATE OF TEST

18 Feb 2010 – 02 Mar 2010



Laboratory:
TÜV SÜD PSB Pte. Ltd.
Testing Services
No.1 Science Park Drive
Singapore 118221

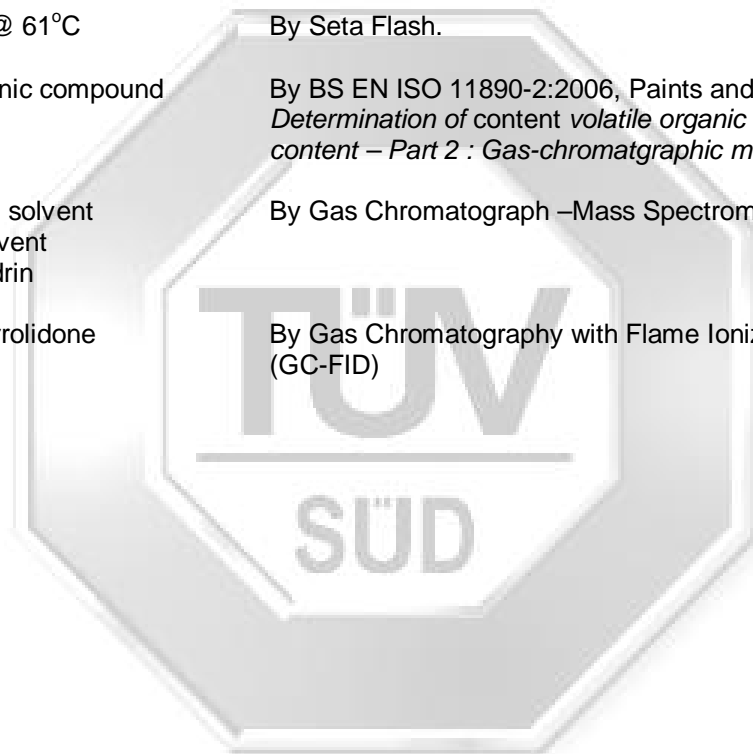
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METHOD OF TEST

The sample was tested in the “as-received” condition.

<u>Test</u>	<u>Method</u>
1) Formaldehyde	The sample was analysed by UV-Vis Spectrophotometer using Acetylacetone as reagent.
2) Mercury, Lead, Cadmium and Chromium	The sample was digested in inorganic acid, followed by analysis using Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES).
3) Flash point @ 61°C	By Seta Flash.
4) Volatile organic compound content	By BS EN ISO 11890-2:2006, Paints and varnishes – <i>Determination of content volatile organic compound (VOC) content – Part 2 : Gas-chromatographic method.</i>
5) Halogenated solvent Aromatic solvent Epichlorohydrin	By Gas Chromatograph –Mass Spectrometry (GC-MS).
6) N-methyl pyrrolidone	By Gas Chromatography with Flame Ionization Detector (GC-FID)



RESULTS

Table 1 : The Formaldehyde results for "VINYL FRESH".

Test	Result	Method Detection Limit
Formaldehyde Content	Not Detected	0.1%

Table 2 : The Elemental results for "VINYL FRESH".

Test	Result	Method Detection Limit
Mercury	Not Detected	0.01%
Lead	Not Detected	0.01%
Cadmium	Not Detected	0.01%
Chromium	Not Detected	0.01%

Table 3 : The Flash Point results for "VINYL FRESH".

Test	Result
Flash point @61°C	No Flash

Table 4 : The Volatile Organic Compound (VOC) content for "VINYL FRESH".


Test	Result	Method Detection Limit
VOC Content ^a	12.6g/L	2g/L

a) - Volatile organic compound (VOC) means any organic compound having an initial boiling point less than or equal to 250°C measured at a standard pressure of 101,3kPa.

b) The result was calculated based on the specific gravity = 1.2725 provided by the client

Table 5 : The analytical results for "VINYL FRESH".

Test	Result	Method Detection Limit
Halogenated solvent	Not Detected	0.1%
Epichlorohydrin	Not Detected	0.1%
Aromatic solvents	Not Detected	0.1%
N-methyl pyrrolidone	Not Detected	0.1%



MS CHOO SEOW YAH
TECHNICAL EXECUTIVE



DR ZHANG YI
CHEMIST
MICROCONTAMINATION DIAGNOSIS
CHEMICAL & MATERIALS

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02 MAR 2010



PSB Singapore

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March 2009