

TEST REPORT: 7191038612-CHM12-CSY

Date: 2 AUG 2012

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SUBJECT

Evaluation of "Reflecto" comply with Singapore Green Labelling Scheme (SGLS), Category 032.

CLIENT

PT Citra Megah Selecomindo
Ruko Gading Bukit Indah Blok B No.8
Jln. Bukit Gading Raya – Kelapa Gading
Jakarta 14240
Indonesia

Attn : Mr. Rahmat Rahardja Ong

DESCRIPTION OF SAMPLE

One bottle of sample labelled as "Reflecto" was received on 08 Jun 2012.

DATE OF TEST

16 July 2012 – 3 Aug 2012



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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 volatile organic compound (VOC) content – Part 2 : Gas-chromatographic method.</i>
5) Halogenated solvents Aromatic solvents Epichlorohydrin	By Gas Chromatograph –Mass Spectrometry (GC-MS).
6) N-methyl pyrrolidone	By Gas Chromatography with Flame Ionization Detector (GC-FID)
7) Alkyl Phenol Ethoxylates	BS3762 : 1990 Analysis of formulated Detergent

SUMMARY OF TEST RESULTS

The summary of test results for "Reflecto".

Item No.	Test	Result	Method Detection Limit	GLS032 Criteria	Inferred Remark
1	Formaldehyde Content	Not Detected	0.1%	Not Detected	Pass
2	Heavy Metals: Mercury, Lead, Cadmium, Chromium	Not Detected	0.01%	Not Detected	Pass
3	Flash point @ 61°C	No Flash	-	> 61°C	Pass
4	VOC Content	21.4 g/L	2 g/L	< 50 g/L*	Pass
5	Halogenated solvents	Not Detected	0.1%	Not Detected	Pass
6	Epichlorohydrin	Not Detected	0.1%	Not Detected	Pass
7	Aromatic solvents	Not Detected	0.1%	Not Detected	Pass
8	N-methyl pyrrolidone	Not Detected	0.1%	Not Detected	Pass
9	Alkyl Phenol Ethoxylates	Not Detected	0.01%	Not Detected	Pass

* For Water Based Coatings (Matt or Low Sheen)

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RESULTS

Table 1 : The Formaldehyde results for "Reflecto".

Test	Result	Method Detection Limit
Formaldehyde Content	Not Detected	0.1%

Table 2 : The Elemental results for "Reflecto".

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 "Reflecto".

Test	Result
Flash point @ 61°C	No Flash

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

Test	Result	Method Detection Limit
VOC Content ^a	21.4 g/L ^b	2 g/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 = 1.28Kg/L provided by the client

Table 5 : The analytical results for "Reflecto".

Test	Result	Method Detection Limit
Halogenated solvents	Not Detected	0.1%
Epichlorohydrin	Not Detected	0.1%
Aromatic solvents	Not Detected	0.1%
N-methyl pyrrolidone	Not Detected	0.1%
Alkyl Phenol Ethoxylates	Not Detected	0.01%

MS CHOO SEOW YAH
TECHNICAL EXECUTIVE

for **DR LISIHAI**
AVP / SENIOR CHEMIST
MICROCONTAMINATION DIAGNOSIS
CHEMICAL & MATERIALS

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July 2011

