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SUBJECT

Evaluation of Paint Sample Comply with SIRIM Eco-Labelling Scheme.

CLIENT

KSC Industries (M) Sdn Bhd No 16 Jalan Sunagai Jeluh 32/189, Bukit Naga, Seksyen 32, 40460 Shah Alam Selangor Malaysia

Attn: Ms Puah

DESCRIPTION OF SAMPLE

One bottle of sample labelled as follows was received on 15 May 2017.

| Brand Name | Product name | Quantity |
|------------|-------------------------|----------|
| Bonshure | Bonshure Primer e-4nova | 1 x 1L |

DATE OF TEST

16 May 2017 - 28 May 2017



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METHOD OF TEST

The sample was tested in the "as-received" condition.

1) Formaldehyde The sample was analysed by UV-Vis Spectrophotometer using

Acetylacetone as reagent.

2) The sample was digested in inorganic acid, followed by Mercury, Lead, Cadmium

analysis using Inductively Coupled Plasma Atomic Emission

Spectroscopy (ICP-AES).

3) Hexavalent Chromium The sample was analysed by UV-Vis spectrometer using 1,5-

Diphenylcarbohydrazide as derivatizing agent.

By BS EN ISO 11890-2:2006, Paints and varnishes -4) Volatile organic compound

content

Determination of volatile organic compound (VOC) content -

Part 2: Gas-chromatographic method.

5) Halogenated hydrocarbons Aromatic hydrocarbons

By Gas Chromatograph -Mass Spectrometry (GC-MS).

SUMMARY OF TEST RESULTS

The summary of test results for "Bonshure Primer e-4nova".

| Item No. | Test | Result | Method Detection Limit | SIRIM Eco-Labelling Criteria | Inferred Remark |
|-------------|---|--------------|------------------------------|------------------------------------|--------------------|
| 1 | Formaldehyde Content | Not Detected | 10 mg/kg | < 100 mg/kg | Pass |
| 2 | Heavy Metals: Mercury, Lead, Cadmium | Not Detected | 0.01% | Shall not contain in the formula | Pass |
| 3 | Hexavalent Chromium | Not Detected | 0.01% | Shall not contain in the formula | Pass |
| 5 | VOC Content | 2.3 g/L | 2 g/L | < 50 g/L ^a | Pass |
| 6 | Halogenated hydrocarbons | Not Detected | 0.001% | < 0.01% | Pass |
| 7 | Aromatic hydrocarbons | Not Detected | 0.01% | < 0.1% ^b | Pass |

^a For Emulsion paints (< 50 g/L), For Other water-based varnishes (< 100 g/L), For Solvent-based paints and varnishes (< 300 g/L)

^b For Emulsion paints (< 0.1%), For Other water-based varnishes (< 1%), For Solvent-based paints and varnishes (< 5%)

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RESULTS (Cont'd)

Table 1: The Formaldehyde results for "Bonshure Primer e-4nova".

| Test | Result | Method Detection Limit |
|----------------------|--------------|------------------------|
| Formaldehyde Content | Not Detected | 10 mg/kg |

Table 2: The Elemental results for "Bonshure Primer e-4nova".

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

Table 3: The Volatile Organic Compound (VOC) content for "Bonshure Primer e-4nova".

| Test | Result | Method Detection Limit |
|--------------------------|----------------------|------------------------|
| VOC Content ^a | 2.3 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 101,3 kPa.

Table 4: The analytical results for "Bonshure Primer e-4nova".

| Test | Result | Method Detection Limit |
|--------------------------|--------------|------------------------|
| Halogenated hydrocarbons | Not Detected | 0.001% |
| Aromatic hydrocarbons | Not Detected | 0.01% |

MS CHOO SEOW YAH

TECHNICAL EXECUTIVE

DR XIAO ZHOU

PRODUCT MANAGER
MICROCONTAMINATION DIAGNOSIS

CHEMICAL & MATERIALS

b) The result was calculated based on the specific gravity = 0.925 provided by the client

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