

TEST REPORT

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CLIENT REF -

DATE OF REPORT

15 September 2004

CLIENT

Nelco Products Pte Ltd
 4, Gul Crescent,
 Jurong, Singapore 629520

COPY

ATTENTION

Mr Chong Chun Wei

SAMPLE DESCRIPTION

One sample is said to be N4000-12

DATE OF SAMPLE RECEIVED

4 October 2004

TEST RESULTS

Element	Test Method	MDL, ppm	Test results (ppm)
Cadmium	EN1122:2001B	5	ND
Lead	EPA 3050 B	5	ND
Hexavalent Chromium	EPA 3060 A	5	ND
Mercury	Mercury Analyzer	-	Less than 2
Polybrominated biphenyls (PBBs)	GCMS	5	ND
Polybrominated Diphenyl Ether (PBDEs), including PentaBDE & OctaBDE	GCMS	5	ND
Polychlorinated biphenyls (PCBs)	GCMS	5	ND
Polychlorinated Naphthalenes (PCNs)	GCMS	5	ND
Chlorinated Paraffins (CPs), C10~C13	GCMS	1000	ND

/pcc

TESTING/REPORTING OFFICER GOH SU LING	REVIEWING OFFICER GOH SU LING (Ms) ASSISTANT PRINCIPAL CHEMIST	APPROVING OFFICER NG LOON JI (Ms) MANAGER
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CERT NO.: 2003-0211
 SS ISO 14001: 1995



CERT NO.: OHS-2003-0053
 OHSAS 18001: 1995

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Element	Test Method	MDL, ppm	Test results (ppm)
Extractable Organic Tin, (as Tin)	Graphite AAS	-	Less than 0.1
Asbestos	Microscopy (PLM)	-	ND
Formaldehyde	ISO 14184-1 (UV)	5	ND
Azo Compounds: 1) 4-Aminodiphenyl 2) Benzidine 3) 4-Chloro-2-methylaniline 4) 2-Naphthylamine 5) o-Aminoazotoluene 6) 2-Amino-4-Nitrotoluene 7) p-chloroaniline 8) 2,4'-Diaminoanisole 9) 4,4'-diaminodiphenylmethane 10) 3,3-Dichlorobenzidine 11) 3,3-Dimethoxybenzidine 12) 3,3'-dimethylbenzidine 13) 3,3-dimethyl-4,4-diaminodiphenylmethane 14) 2-Methoxy-5-methylaniline 15) 4,4'-methylenedianiline-bis-(2-chloroaniline) 16) 4,4-oxydianiline 17) 4,4-Thiodianiline 18) o-Toluidine 19) 2,4-Toluenediamine 20) 2,4,5-Trimethylaniline 21) o-Anisidine 22) 4-Aminoazobenzene	DIN	5	ND

/pcc

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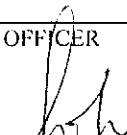

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Element	Test Method	MDL, ppm	Test results (ppm)
<p>Ozone Depleting Substances:</p> <p><u>Class I:</u></p> <p>CFC's :</p> <p>Trichlorofluoromethane CFC-11 Dichlorodifluoromethane CFC-12 Chlorotrifluoromethane CFC-13 Trichlorotrifluoroethane CFC-113 Dichlorotetrafluoroethane CFC-114 Chloropentafluoroethane CFC-115 CFC-111 CFC-112 CFC-211 CFC-212 CFC-213 CFC-214 CFC-215 CFC-216 CFC-217</p> <p>Halons:</p> <p>Bromofluorofluoromethane Halon1211 Bromofluoroethane Halon 1301 Dibromotetrafluoroethane Halon 2402 Carbon tetrachloride 1,1,1-Trichloroethane (Methyl Chloroform)</p> <p><u>Class II:</u></p> <p>HCFC's (all isomers of the following chemicals) CHFCl₂ – Dichlorofluoromethane (HCFC-21) CHF₂Cl – Chlorodifluoromethane (HCFC-22) CH₂FCl – Chlorofluoromethane (HCFC –31)</p> <p>C2HFCl₄ (HCFC-121) C2HF₂Cl₃ (HCFC-122) C2HF₃Cl₂ (HCFC-123) C2HFCl (HCFC-124) C2H₂FCl₃ (HCFC-131) C2H₂F₂Cl₂ (HCFC-132a) C2H₂F₃Cl (HCFC-133a) C2H₂F₂Cl₂ (HCFC-132b)</p>	GCMS/ Headspace	5	ND

/pcc

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CERT NO.: 2003-0211
SS ISO 14001:1996



CERT NO.: OHS-2003-0053
OHSAS 18001:1999



Singapore Technologies
Engineering

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Element	Test Method	MDL, ppm	Test results (ppm)
<i>Class II: (cont)</i> C2H3F2Cl (HCFC-142b) C2H3FCI2 (HCFC-141b) C3HF2Cl5 (HCFC-222) C3HFCI6 (HCFC-221) C3HF4Cl3 (HCFC-224) C3HF3Cl4 (HCFC-223) C3HF6Cl (HCFC-226) C3HF5Cl2 (HCFC-225) C3H2F2Cl4 (HCFC-232) C3H2FCI5 (HCFC-231) C3H2F4Cl2 (HCFC-234) C3H2F3Cl3 (HCFC-233) C3H3FCI4 (HCFC-241) C3H2F5Cl (HCFC-235) C3H3F3Cl2 (HCFC-243) C3H3F2Cl3 (HCFC-242) C3H4FCI3 (HCFC-251) C3H3F4Cl (HCFC-244) C3H4F3Cl (HCFC-253) C3H4F2Cl2 (HCFC-252) C3H5F2Cl (HCFC-262) C3H5FCI2 (HCFC-261) C3HF5Cl2 (HCFC-225ca) C3H6FCI (HCFC-271) (HCFC-225cb)	GCMS/ Headspace		ND
<u>Hydrobromofluoro Compounds (Group VII)</u> CHFBr2 CHF2Br (HBFC-2281) CH2FBr C2HFBr4 C2HF2Br3 C2HF3Br2 C2HF4Br C2H2FBr3 C2H2F2Br2 C2H2F3Br C2H3FBr2 C2H3F2Br C2H4FBr C3HFBr6 C3HF2Br5 C3HF3Br4 C3HF4Br3 C3HF5Br2 C3HF6Br C3H2FBr5 C3H2F2Br4 C3H2F3Br3 C3H2F4Br2 C3H2F5Br C3H3FBr4 C3H3F2Br3 C3H3F3Br2 C3H3F4Br C3H4FBr3 C3H4F2Br2 C3H4F3Br C3H5FBr2 C3H5F2Br C3H6FBr Methylene Bromide CH3Br C2H4Br2			
Polyvinyl Chloride (PVC) and PVC blends	FTIR	-	ND

/ppc Note: ND: Not detected ppm: mg/kg MDL: method detection limit

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Test method:

- A) To determine Cadmium content, with reference to EN1122:2001B and performed by Inductively Coupled Plasma Atomic Emission Spectrometry.
- B) To determine Lead content, with reference to EPA 3050B and performed by Inductively Coupled Plasma Atomic Emission Spectrometry.
- C) To determine hexavalent chromium content, with reference to EPA 3060A and performed by Ultra Violet Spectrophotometer
- D) To determine Mercury content, pre-conditioned with reference to Kjeldahl Method and performed by Mercury Analyzer.
- E) To determine PBBs & PBDEs content, with reference to EPA1614 & in-house method. The analysis was performed by GCMS.
- F) To determine extractable Tin, with reference to wet decomposition. The analysis was performed by graphite Furnace AAS.
- G) To determine Azo compounds, with reference to DIN method. The analysis was performed by GCMS
- H) To determine PCNs, PCBs and Chlorinated Parraffin (short chain C10 ~C13) content, with reference to EPA 8260/8270. The analysis was performed by GCMS.
- I) To determine Asbestos content, with reference to in-house method. The analysis was performed by Microscopy (PLM).
- J) To determine PVC and PVC blend, with reference to in-house method. The analysis was performed by FTIR.
- K) To determine Ozone depleting substances, the analysis was performed by GCMS/Headspace.

Remarks:

- (1) The analytical results of Mercury, PBBs & PBDEs ,PCBs, PCNs, CPs, OrganicTin, Asbestos, PVC, Azo compounds and ozone depleting substances are referenced to ALS Report No:ATS/GENV/474/04/eh

/pcc

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