

Test Report

No: 10261554(1a)

Date: 23-Feb-12

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LHT HOLDINGS LTD
No.27, Sungei Kadut Street 1, Singapore 729335

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : Technical wood

Sample Receiving Date : 10-Feb-12
Testing Period : 10-Feb-12 to 22-Feb-12

Test Result(s) : Please refer to next page(s).

Signed for and on behalf of
SGS Testing & Control Services Singapore Pte Ltd



Y.C. Tham
Laboratory Manager

Test Location: 26 Ayer Rajah Crescent, #07-08, Singapore 139944

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Test Result(s):

Sample Description : Technical wood

Test Item(s):	Unit	Method	Results	MDL
2-(3,5-di-tert-butyl-2-hydroxyphenyl)-2H-benzotriazole* (CAS No.: 003846-71-7)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	n.d.	5
Perfluorooctane Sulfonates (PFOS)* – Acid, Metal Salt, Amide	mg/kg	With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	n.d.	10
Bromomethane* (CAS No.: 74-83-9)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Bromochloromethane* (CAS No.: 74-97-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Sulfur Hexafluoride(SF6) * (CAS No.: 2551-62-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Formaldehyde* (CAS No.:50-00-0)	mg/kg	With reference to ISO 17226-1 (2008) method. Analysis was performed by HPLC/DAD.	34.1	3
Organic-tin compounds*				
Tributyl Tin (TBT) (CAS No.: 000688-73-3)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	n.d.	0.03
Triphenyl Tin (TphT) (CAS No.: 000668-34-8)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	n.d.	0.03
Dibutyl Tin (DBT)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	n.d.	0.03
Diocetyl Tin (DOT)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	n.d.	0.03
Tributyl Tin Oxide (TBTO)*** (CAS No.:56-35-9)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	n.d.	-
Asbestos*				
Actinolite (CAS No.: 77536-66-4)	%	With reference to EPA 600/R-93/116 method. Analysis was performed by SM,PLM and XRD.	Negative	1
Amosite (CAS No.: 12172-73-5)	%	With reference to EPA 600/R-93/116 method. Analysis was performed by SM,PLM and XRD.	Negative	1
Anthophyllite (CAS No.: 77536-67-5)	%	With reference to EPA 600/R-93/116 method. Analysis was performed by SM,PLM and XRD.	Negative	1
Chrysotile (CAS No.:12001-29-5)	%	With reference to EPA 600/R-93/116 method. Analysis was performed by SM,PLM and XRD.	Negative	1
Crocidolite (CAS No.: 12001-28-4)	%	With reference to EPA 600/R-93/116 method. Analysis was performed by SM,PLM and XRD.	Negative	1
Tremolite (CAS No.: 77536-68-6)	%	With reference to EPA 600/R-93/116 method. Analysis was performed by SM,PLM and XRD.	Negative	1

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Test Result(s):

Sample Description : Technical wood

Test Item(s):	Unit	Method	Results	MDL
AZO*				
1): 4-AMINODIPHENYL (CAS No.: 92-67-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
2): BENZIDINE (CAS No.:92-87-5)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
3): 4-CHLORO-O-TOLUIDINE (CAS No.: 95-69-2)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
4): 2-NAPHTHYLAMINE (CAS No.: 000091-59-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
5): O-AMINOAZOTOLUENE (CAS No.: 97-56-3)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
6): 2-AMINO-4-NITROTOLUENE (CAS No.: 99-55-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
7): P-CHLOROANILINE (CAS No.: 106-47-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
8): 2,4-DIAMINOANISOLE (CAS No.: 615-05-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
9): 4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 101-77-9)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
10): 3,3'-DICHLOROBENZIDINE (CAS No.: 91-94-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
11): 3,3'-DIMETHOXYBENZIDINE (CAS No.: 119-90-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
12): 3,3'-DIMETHYLBENZIDINE (CAS No.:119-93-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
13): 3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 838-88-0)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3

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Test Result(s):

Sample Description : Technical wood

Test Item(s):	Unit	Method	Results	MDL
14): P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS No.: 120-71-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
15): 4,4'-METHYLENE-BIS-(2-CHLOROANILINE) (CAS No.: 101-14-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
16): 4,4'-OXYDIANILINE (CAS No.: 101-80-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
17): 4,4'-THIODIANILINE (CAS No.:139-65-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
18): O-TOLUIDINE (CAS No.: 95-53-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
19): 2,4-TOLUYLENEDIAMINE (CAS No.: 95-80-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
20): 2,4,5-TRIMETHYLANILINE (CAS No.: 137-17-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
21): O-ANISIDINE (CAS No.: 90-04-0)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
22): P-AMINOAZOBENZENE (CAS No.: 60-09-3)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
23): 2,4-XYLIDINE (CAS No.: 95-68-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3
24): 2,6-XYLIDINE (CAS No.: 87-62-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	n.d.	3

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Test Result(s):

Sample Description : Technical wood

Test Item(s):	Unit	Method	Results	MDL
CFC's (Chlorofluorocarbons) Group I*				
Chlorofluorocarbon-11 (CAS No.: 75-69-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Chlorofluorocarbon-12 (CAS No.: 75-71-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Chlorofluorocarbon-113 (CAS No.: 76-13-1)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Chlorofluorocarbon-114 (CAS No.: 76-14-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Chlorofluorocarbon-115 (CAS No.: 76-15-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
CFC's (Chlorofluorocarbons) Group III*				
Chlorofluorocarbon-13 (CAS No.: 75-72-9)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Chlorofluorocarbon-111 (CAS No.: 354-56-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Chlorofluorocarbon-112 (CAS No.: 76-12-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Chlorofluorocarbon-211 (CAS No.: 422-78-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Chlorofluorocarbon-212 (CAS No.: 3182-26-1)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Chlorofluorocarbon-213 (CAS No.: 2354-06-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Chlorofluorocarbon-214 (CAS No.: 29255-31-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Chlorofluorocarbon-215 (CAS No.: 4259-43-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1

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Test Result(s):

Sample Description : Technical wood

Test Item(s):	Unit	Method	Results	MDL
Chlorofluorocarbon-216 (CAS No.: 661-97-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Chlorofluorocarbon-217 (CAS No.: 422-86-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HCFC's (Hydrogenated chlorofluorocarbons)*				
Hydrochlorofluorocarbon-21 (CAS No.: 75-43-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-22 (CAS No.: 75-45-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-31 (CAS No.: 593-70-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-121 (CAS No.:354-14-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-122 (CAS No.: 354-21-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-123 (CAS No.: 306-83-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-124 (CAS No.: 2837-89-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-131 (CAS No.: 359-28-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-132b (CAS No.: 1649-08-7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-133a (CAS No.:75-88-7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-141b (CAS No.: 1717-00-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1

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Test Result(s):

Sample Description : Technical wood

Test Item(s):	Unit	Method	Results	MDL
Hydrochlorofluorocarbon-142b (CAS No.:75-68-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-221 (CAS No.:422-26-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-222 (CAS No.: 422-49-1)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-223 (CAS No.: 422-52-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-224 (CAS No.:422-54-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-225ca (CAS No.: 422-56-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-225cb (CAS No.: 507-55-1)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-226 (CAS No.: 431-87-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-231 (CAS No.: 421-94-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-232 (CAS No.: 460-89-9)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-233 (CAS No.: 7125-84-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-234 (CAS No.: 425-94-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-235 (CAS No.: 460-92-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-241 (CAS No.: 666-27-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1

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Test Result(s):

Sample Description : Technical wood

Test Item(s):	Unit	Method	Results	MDL
Hydrochlorofluorocarbon-242 (CAS No.: 460-63-9)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-243 (CAS No.: 460-69-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-244	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-251 (CAS No.: 421-41-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-252 (CAS No.: 819-00-1)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-253 (CAS No.: 460-35-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-261 (CAS No.: 420-97-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-262 (CAS No.: 421-02-03)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrochlorofluorocarbon-271 (CAS No.: 430-55-7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Halons *				
Halon-1211 (CAS No.: 353-59-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Halon-1301 (CAS No.: 75-63-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Halon-2402 (CAS No.: 124-73-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1

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Test Result(s):

Sample Description : Technical wood

Test Item(s):	Unit	Method	Results	MDL
HBFC's (Hydrogenated bromofluorocarbons)*				
HBFC-21B2 (CHFBr ₂) (CAS No.: 1868-53-7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-22B1 (CHF ₂ Br) (CAS No.: 1511-62-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-31B1 (CH ₂ FBr) (CAS No.: 373-52-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-121B4 (C ₂ HFBr ₄)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-122B3 (C ₂ HF ₂ Br ₃)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-123B2 (C ₂ HF ₃ Br ₂)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-124B1 (C ₂ HF ₄ Br)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-131B3 (C ₂ H ₂ FBr ₃)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-132B2 (C ₂ H ₂ F ₂ Br ₂)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-133B1 (C ₂ H ₂ F ₃ Br)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-141B2 (C ₂ H ₃ FBr ₂)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-142B1 (C ₂ H ₃ F ₂ Br)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-151B1 (C ₂ H ₄ FBr)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1

Test Location: 26 Ayer Rajah Crescent, #07-08, Singapore 139944

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Test Result(s):

Sample Description : Technical wood

Test Item(s):	Unit	Method	Results	MDL
HBFC-221B6 (C3HFBr6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-222B5 (C3HF2Br5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-223B4 (C3HF3Br4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-224B3 (C3HF4Br3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-225B2 (C3HF5Br2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-226B1 (C3HF6Br)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-231B5 (C3H2FBr5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-232B4 (C3H2F2Br4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-233B3 (C3H2F3Br3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-234B2 (C3H2F4Br2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-235B1 (C3H2F5Br)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-241B4 (C3H3FBr4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-242B3 (C3H3F2Br3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1

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Test Result(s):

Sample Description : Technical wood

Test Item(s):	Unit	Method	Results	MDL
HBFC-243B2 (C3H3F3Br2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-244B1 (C3H3F4Br)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-251B3 (C3H4FBr3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-252B2 (C3H4F2Br2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-253B1 (C3H4F3Br)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-261B2 (C3H5FBr2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-262B1 (C3H5F2Br)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HBFC-271B1 (C3H6FBr)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hydrofluorcarbon, fluorinated hydrocarbon, fluorohydrocarbon (HFC)*				
HFC-23 (CHF3) (CAS No.: 75-46-7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HFC-32 (CH2F2) (CAS No.: 75-10-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HFC-41 (CH3F) (CAS No.: 59-53-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HFC-43-10mee (C5H2F10)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HFC-125 (C2HF5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1

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Test Result(s):

Sample Description : Technical wood

Test Item(s):	Unit	Method	Results	MDL
HFC-134 (C2H2F4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HFC-134a (CH2FCF3) (CAS No.: 811-97-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HFC-143 (CH3F3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HFC-143a (CH3F3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HFC-152a (C2H4F2) (CAS No.: 75-37-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HFC-227ea (C3HF7) (CAS No.: 431-89-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HFC-236fa (C3H2F6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HFC-236ea (C3H2F6) (CAS No.: 431-63-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HFC-245ca (C3H3F5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HFC-245fa (C3H3F5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
HFC-365mfc (C4H5F5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1

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Test Result(s):

Sample Description : Technical wood

Test Item(s):	Unit	Method	Results	MDL
Perfluorocarbon (PFC)*				
F14 (CAS No.: 75-73-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Fluorocarbon 116 (CAS No.: 76-16-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Freon 218 (CAS No.: 76-19-7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Decafluorobutane (CAS No.: 355-25-9)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Freon C318 (CAS No.: 115-25-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Perfluor-1-butene (CAS No.: 357-26-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Perfluorisobutene (CAS No.: 382-21-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
1,4-dihydroctafluorobutane (CAS No.: 377-36-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Nonafluor-2- (trifluorpmethyl)butane (CAS No.: 594-91-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Perfluoro-n-pentane (CAS No.: 678-26-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
2-perfluoromethylpentane (CAS No.: 000355-04-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Perfluorohexane (CAS No.: 000355-42-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1

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Test Result(s):

Sample Description : Technical wood

Test Item(s):	Unit	Method	Results	MDL
CHC's (Chlorinated hydrocarbon)*				
1,1,1,2-Tetrachloroethane (CAS No.: 630-20-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
1,1,1-Trichloroethane (CAS No.: 71-55-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
1,1,2,2-Tetrachloroethane (CAS No.: 79-34-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
1,1,2-Trichloroethane (CAS No.: 79-00-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
1,1-Dichloroethane (CAS No.: 75-34-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
1,1-Dichloroethene (CAS No.: 75-35-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
1,1-Dichloropropene (CAS No.: 000563-58-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
1,2,3-Trichloropropane (CAS No.: 96-18-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
1,2-Dichloroethane (CAS No.: 107-06-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
1,2-Dichloropropane (CAS No.: 78-87-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
1,3-Dichloropropane (CAS No.: 142-28-9)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
2,2-Dichloropropane (CAS No.: 594-20-7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Carbon tetrachloride (CAS No.: 56-23-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1

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Test Result(s):

Sample Description : Technical wood

Test Item(s):	Unit	Method	Results	MDL
Chloroethane (CAS No.: 75-00-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Chloroform (CAS No.: 67-66-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Chloromethane (CAS No.: 74-87-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Cis-1,2-Dichloroethene (CAS No.: 156-59-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Cis-1,3-Dichloropropene (CAS No.: 10061-01-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Hexachlorobutadiene (CAS No.: 87-68-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Methylene Chloride (CAS No.: 75-09-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Tetrachloroethene (CAS No.: 127-18-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
trans-1,2-Dichloroethene (CAS No.: 156-60-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
trans-1,3-Dichloropropene (CAS No.:10061-02-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1
Trichloroethylene (CAS No.: 79-01-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	n.d.	1

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Test Result(s):

Sample Description : Technical wood

Test Item(s):	Unit	Method	Results	MDL
Polychlorinated Biphenyls (PCBs) (CAS No.: 001336-36-3)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	n.d.	0.5
Polychlorinated Terphenyls (PCTs)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	n.d.	0.5
Polychlorinated Naphthalene (PCNs)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	n.d.	5
Chlorinated Paraffin (C10~C13) (CAS No.: 010871-26-2)	%	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	n.d.	0.01
Dimethyl Fumarate (CAS No.: 000624-49-7)	mg/kg	With reference to US EPA 3550C. Analysis was performed by GC/MS.	n.d.	0.1

- Note:
- (1) mg/kg = ppm ; 0.1wt% = 1000ppm
 - (2) n.d.= Not Detected
 - (3) MDL = Method Detection Limit
 - (4) " - " = Not Regulated
 - (5) Asbestos : Negative = "< 1.0 %", Positive = "> 1.0 %"
 - (6) *** . The substance was calculated by the test results of Tributyl Tin respectively. The MDL was evaluated for Tributyl Tin respectively.
 - (7) The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value.

PFOS Reference Information: POPs - (EU) 757/2010

Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1µg/m².

*** Tested by SGS lab (CE/2012/23364)**

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Sample photo:

Sample Description : Technical wood

SGS authenticate the photo on original report only

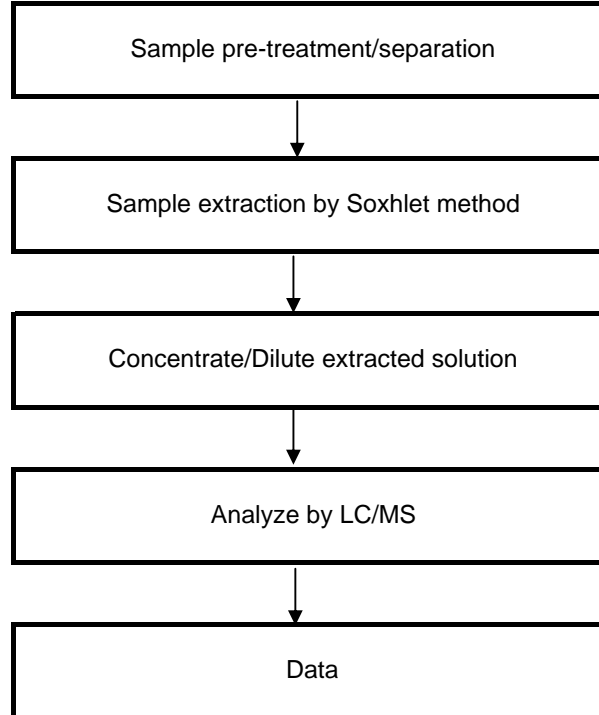


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Analytical flow chart of Soxhlet extraction (LC/MS) procedure

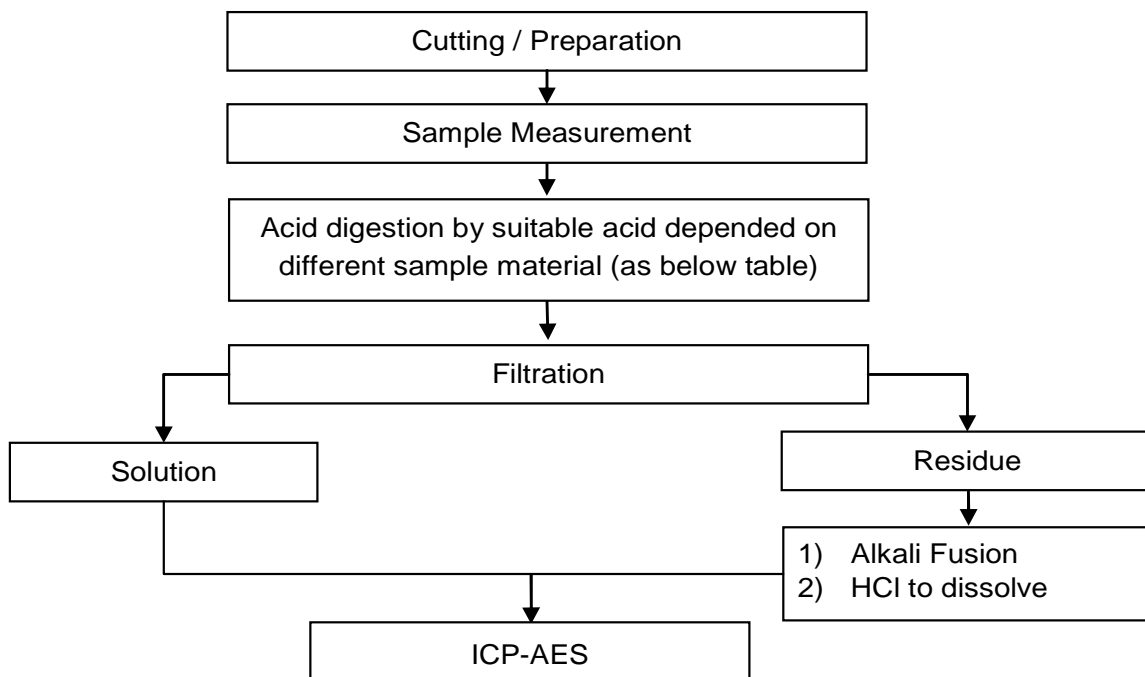
Test Items: PFOS/PFOA, Benzotriazole



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Flow Chart of digestion for the elements analysis performed by ICP-AES

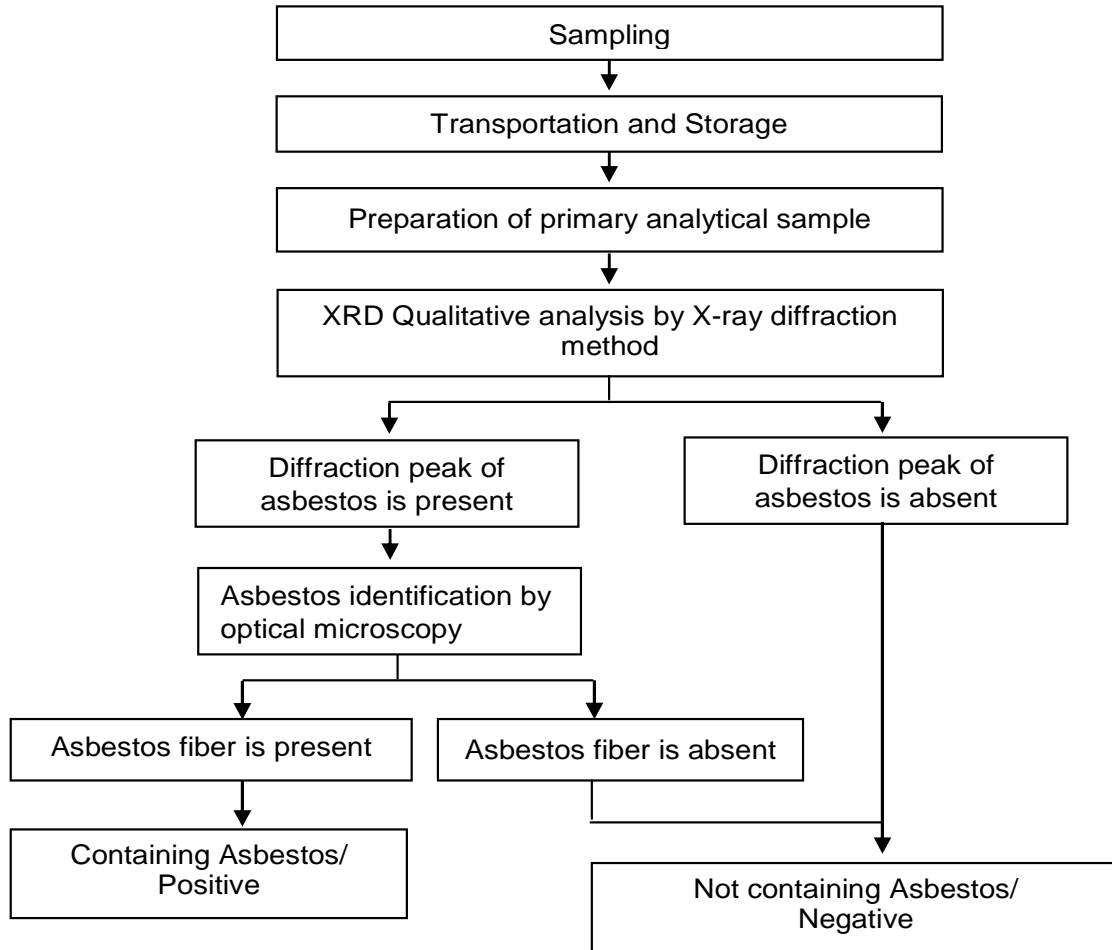


Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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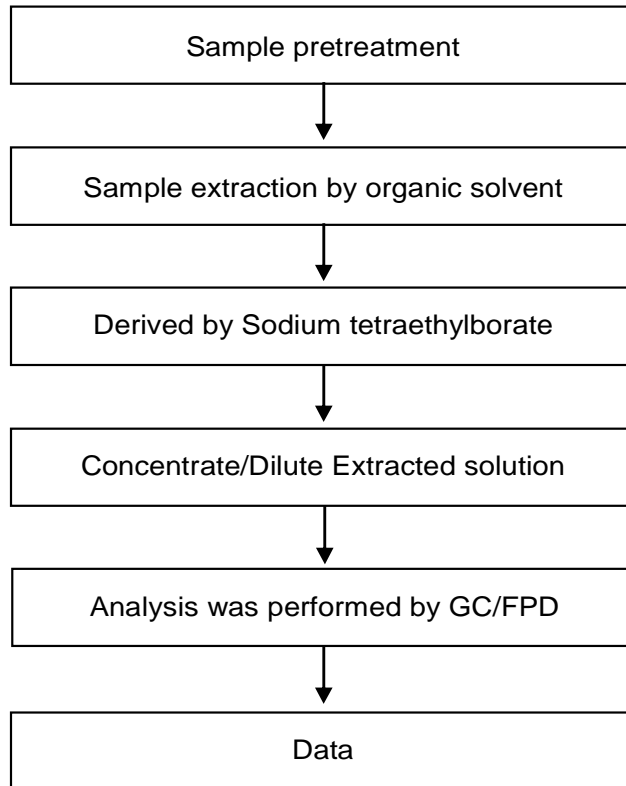
Analysis flow chart for determination of Asbestos



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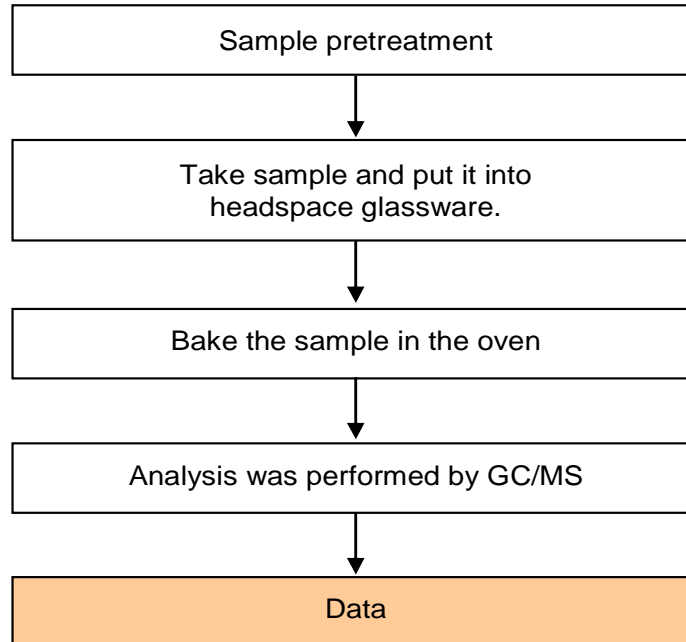
Analytical flow chart of Organic-Tin content



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Analytical flow chart of volatile organic compounds (VOCs)

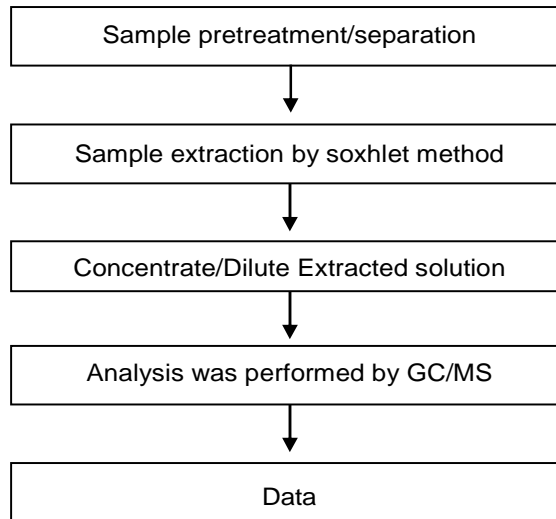


Test Location: 26 Ayer Rajah Crescent, #07-08, Singapore 139944

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Analytical flow chart of Soxhlet extraction (GC/MS) procedure

- Test Items: PCB, PCN,PCT, CP



End of Report

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