

563, TAKATSUKA-SHINDEN, MATSUDO-SHI, CHIBA 270- Date : 2004/11/15

2222, JAPAN Page : 1 of 10

The following merchandise was(were) submitted and identified by the client as:

Type of Product 8-PIN SOP-G Sample Received 2004/11/08.

Testing Date : 2004/11/08 TO 2004/11/15

Test Result : - Please see the next page -

gned for and on behalf of SGS TAIWAN LTD.



563, TAKATSUKA-SHINDEN, MATSUDO-SHI, CHIBA 270- Date : 2004/11/15

2222, JAPAN Page : 2 of 10

Test Result

PART NAME NO.1 : PLEASE REFER TO THE SAMPLE CARD(S).(MIX ALL PARTS)

				Result				
Test Item(s):	Unit	Method	MDL	NO.1				
Carbon tetrachloride		With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	N.D.				

					Res	ult	
Test Item(s):	Unit	Method	MDL	NO.1			
CFC's(Chlorofluorocarbons)		With reference to US EPA 8260.					
Group I							
Chlorofluorocarbon-11(CAS No:000075-69-4)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluoroc arbons))	1	N.D.			
Chlorofluorocarbon-12(CAS No:000075-71-8)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluoroc arbons))	1	N.D.			
Chlorofluorocarbon-113(CAS No:000076-13-1)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluoroc arbons))	1	N.D.			
Chlorofluorocarbon-114(CAS No:000076-14-2)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluoroc arbons))	1	N.D.			
Chlorofluorocarbon-115(CAS No:000076-15-3)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluoroc arbons))	1	N.D.			
Group III							
Chlorofluorocarbon-13(CAS No:000075-72-9)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluoroc arbons))	1	N.D.			
Chlorofluorocarbon-111(CAS No:000354-56-3)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluoroc arbons))	1	N.D.			



563, TAKATSUKA-SHINDEN, MATSUDO-SHI, CHIBA 270- Date : 2004/11/15

2222, JAPAN Page : 3 of 10

					Result		
Test Item(s):	Unit	Method	MDL	NO.1			
Chlorofluorocarbon-112(CAS No:000076-12-0)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluoroc arbons))	1	N.D.			
Chlorofluorocarbon-211(CAS No:135401-87-5)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluoroc arbons))	1	N.D.			
Chlorofluorocarbon-212(CAS No:076564-99-3)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluoroc arbons))	1	N.D.			
Chlorofluorocarbon-213(CAS No:060285-54-3)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluoroc arbons))	1	N.D.			
Chlorofluorocarbon-214(CAS No:002268-46-4)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluoroc arbons))	1	N.D.			
Chlorofluorocarbon-215(CAS No:000076-17-5)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluoroc arbons))	1	N.D.			
Chlorofluorocarbon-216(CAS No:001652-80-8)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluoroc arbons))	1	N.D.			
Chlorofluorocarbon-217(CAS No:000422-86-6)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluoroc arbons))	1	N.D.			

				Result				
Test Item(s):	Unit	Method	MDL	NO.1				
1,1,1-trichloroethane	1 - 1	Analysis was performed by GC/MS.	1	N.D.				

					I	Result	
Test Item(s):	Unit	Method	MDL	NO.1			
Chlorinated Paraffin (C10~C13) (CAS NO:010871- 26-2)		With reference to 83/264/EEC & EPA 8270D. Analysis was performed by GC/MS.	0.01	N.D.			



563, TAKATSUKA-SHINDEN, MATSUDO-SHI, CHIBA 270- Date : 2004/11/15

2222, JAPAN Page : 4 of 10

Test Item(s):	Unit	Method	MDL	NO.1		
Halon		With reference to US EPA 8260.				
Halon-1211(CAS No:000353-59-3)	ppm	Analysis was performed by GC/MS	1	N.D.		
Halon-1301(CAS No:000075-63-8)	ppm	Analysis was performed by GC/MS	1	N.D.		
Halon-2402(CAS No:000124-73-1)	ppm	Analysis was performed by GC/MS	1	N.D.		

]	Result	
Test Item(s):	Unit	Method	MDL	NO.1			
PBBs(Polybrominated piphenyls)(CAS NO:67774- 32-7)	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC and 76/769/EEC)	0.0005	N.D.			
PBBEs(PBDEs)(Polybrominat ed biphenyl ethers)	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC and 76/769/EEC)	0.0005	N.D.			

				Result				
Test Item(s):	Unit	Method	MDL	NO.1				
Polychlorinated Naphthalene		With reference to 83/264/EEC & EPA 8270D. Analysis was performed by GC/MS.	5	N.D.				



563, TAKATSUKA-SHINDEN, MATSUDO-SHI, CHIBA 270- Date : 2004/11/15

2222, JAPAN Page : 5 of 10

					Result	
Test Item(s):	Unit	Method	MDL	NO.1		
PCBs(Polychlorinated Biphenyls)(CAS NO:001336- 36-3)	ppm	With reference to US EPA 8082,89/677/EEC. Analysis was performed by GC/ECD/MS.	0.5	N.D.		
PCTs(Polychlorinated Terphenyls)		With reference to US EPA 8082,89/677/EEC. Analysis was performed by GC/ECD/MS.	0.5	N.D.		

					F	Result	
Test Item(s):	Unit	Method	MDL	NO.1			
Halogen		As per prEN14582 method B.					
Halogen-Chlorine (Cl)(CAS No:007782-50-5)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it , The absorb solution was analyzed by IC method	50	N.D.			
Halogen-Fluorine (F)(CAS No:007782-41-4)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it , The absorb solution was analyzed by IC method	50	N.D.			
Halogen-Bromine (Br)(CAS No:007726-95-6)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it , The absorb solution was analyzed by IC method	50	2300.0			
Halogen-Iodine (I)(CAS No:007553-56-2)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, analyzed by ICP	50	N.D.			



563, TAKATSUKA-SHINDEN, MATSUDO-SHI, CHIBA 270- Date : 2004/11/15

2222, JAPAN Page : 6 of 10

					Re	sult	
Test Item(s):	Unit	Method	MDL	NO.1			
HCFC's(Hydrogenated chlorofluorocarbons)		With reference to US EPA 8260.					
Hydrochlorofluorocarbon- 21(CAS No.:000075-43-4)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 22(CAS No.:000075-45-6)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 31(CAS No.:000593-70-4)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 121(CAS No.:000354-14-3)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 122(CAS No.:000354-21-2)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 123(CAS No.:000306-83-1)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 124(CAS No.:002837-89-0)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 131(CAS No.:000359-28-4)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 131b(CAS No.:000471-43-2)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 133a(CAS No.:000075-88-7)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 141b(CAS No.:001717-00-6)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			



563, TAKATSUKA-SHINDEN, MATSUDO-SHI, CHIBA 270- Date : 2004/11/15

2222, JAPAN Page : 7 of 10

					Resul	t	
Test Item(s):	Unit	Method	MDL	NO.1			
Hydrochlorofluorocarbon- 221	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 222(CAS No.:000422-30-0)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 223	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 224	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 225ca(CAS No.:000422-56- 0)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 225cb(CAS No.:000507-55- 1)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 226(CAS No.:000431-87-8)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 231	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 232	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 233	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 234	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			



563, TAKATSUKA-SHINDEN, MATSUDO-SHI, CHIBA 270- Date : 2004/11/15

2222, JAPAN Page : 8 of 10

Test Item(s):	Unit Method		Result				
		Method	MDL	NO.1			
Hydrochlorofluorocarbon- 235(CAS No.:013838-16-9)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 241	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 242	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 243(CAS No.:000338-75-0)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 244	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 251	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 252	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 253(CAS No.:000354-06-1)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 261(CAS No.:000420-97-3)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 262(CAS No.:000420-97-3)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			
Hydrochlorofluorocarbon- 271	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenat ed chlorofluorocarbons))	1	N.D.			



563, TAKATSUKA-SHINDEN, MATSUDO-SHI, CHIBA 270- Date : 2004/11/15

2222, JAPAN Page : 9 of 10

				Result				
Test Item(s):	Unit	Method	MDL	NO.1				
PVC free(CAS No:9002-86-2)		With reference to ASTM E1252 method. Analysis was performed by FTIR/ATR AND Pyro-GC/MS.	-	Negative				

				Result				
Test Item(s):	Unit	Method	MDL	NO.1				
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.				
Cadmium (Cd)	ppm	ICP-AES After As per EN 1122, Method B:2001 or other acid digestion.	2	N.D.				
Mercury (Hg)	ppm	ICP-AES After As per US EPA 3052 or other acid digestion.	2	N.D.				
Lead (Pb)	ppm	ICP-AES After As per US EPA 3050B or other acid digestion.	2	N.D.				

NOTE: (1) N.D. = Not detected.(<MDL)

- (2) ppm = mg/kg
- (3) MDL= Method Detection Limit
- (4) " ---" = Not Applicable
- (5) " -" = Not Regulation
- (6) * = Results shown are of the adjusted analytical results.
- (7) **= Qualitative analysis(No Unit)
- (8) Negative = Undetectable / Positive = Detectable.



563, TAKATSUKA-SHINDEN, MATSUDO-SHI, CHIBA 270- Date : 2004/11/15

2222, JAPAN Page : 10 of 10

