

Textile Laboratory

Test Report

No: TXB1370 /2015/HH

Date: Dec. 01, 2015

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Voll Will Enterprise Co., Ltd
No. 186, Sec. 3, Chien Kang Rd.
Tainan City, Taiwan, R.O.C.

The following sample was submitted and identified by applicant as:

Sample Description : One sample of knitted fabric Fir Skin®T+

Color : Black

Applicant : Voll Will Enterprise Co., Ltd

Sample Receiving Date : Nov. 19, 2015

Test Performance Period : Nov. 19, 2015 to Dec. 01, 2015

Test Requested : As requested by client, SVHC screening is performed according to:
- One hundred and sixty-three (163) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before June 15, 2015 regarding Regulation (EC) No 1907/2006 concerning the REACH.

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

Summary :

According to the specified scope and analytical techniques, concentrations of tested SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.	PASS
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Signed for and on behalf of
SGS Taiwan Ltd.

Chang Chia Hao, Ronnie
Supervisor

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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<http://echa.europa.eu/web/guest/candidate-list-table> (Candidate list)
 The lists are under evaluation by ECHA and may subject to change in the future.
2. In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).
3. Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.
4. SGS adopts the interpretation of ECHA for SVHC in article unless indicated otherwise. Detail explanation is available at the following link:
 - http://webstage.contribute.sgs.net/corpreach/documents/SGS-CTS_SVHC-paper-EN-11.pdf
5. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Group No.	Component No.	Component Description
A	1.	Black knitted fabric Fir Skin®T+

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Test Method:

SGS In-House method - Analyzed by ICP-OES, GC-MS, UV-VIS, HPLC-DAD, HPLC-MS and colorimetric method

Test Result (per test group):

No.	Substance Name	CAS No. / EC No.	Concentration (%)
-	All tested SVHC	-	ND

Notes :

1. RL = Reporting Limit. All RL are based on homogenous material.
ND = Not detected (lower than RL). ND is denoted on the SVHC substance.
2. * The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm

The client is advised to review the chemical formulation to ascertain above metal substances present in the article.

RL = 0.05% for organic substances, 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, sodium, chromium, chromium (VI), silicon, aluminum, zirconium, zinc, antimony, calcium, titanium, barium, potassium, strontium and cadmium respectively), except molybdenum RL = 0.0005%, boron RL = 0.0025%.

3. The table above only shows detected SVHC; please refer to Appendix for the full list of tested SVHC and the corresponding reporting limit. SVHCs that below reporting limit are not reported.
4. The result is calculated based on the minimum sample weight for composite testing.

Sample photo:



SGS authenticate the photo on original report only

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Appendix

No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
Candidate List of Substances of Very High Concern (SVHC) for authorization published on October 28, 2008							
1	4,4'-Diaminodiphenylmethane (MDA)	101-77-9/ 202-974-4	0.050	2	5-tert-butyl-2,4,6-trinitro- <i>m</i> -xylene (musk xylene)	81-15-2/ 201-329-4	0.050
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8/ 287-476-5	0.050	4	Anthracene	120-12-7/ 204-371-1	0.050
5	Benzyl butyl phthalate (BBP)	85-68-7/ 201-622-7	0.050	6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7/ 204-211-0	0.050
7	Bis(tributyltin)oxide (TBTO)	56-35-9/ 200-268-0	0.050	8	Cobalt dichloride*	7646-79-9/ 231-589-4	0.005
9	Diarsenic pentaoxide*	1303-28-2/ 215-116-9	0.005	10	Diarsenic trioxide*	1327-53-3/ 215-481-4	0.005
11	Dibutyl phthalate (DBP)	84-74-2/ 201-557-4	0.050	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) ^Δ	25637-99-4 3194-55-6/ 247-148-4 221-695-9	0.050
13	Lead hydrogen arsenate*	7784-40-9/ 232-064-2	0.005	14	Sodium dichromate*	7789-12-0 10588-01-9/ 234-190-3	0.005
15	Triethyl arsenate*	15606-95-8/ 427-700-2	0.005				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on January 13, 2010							
16	2,4-Dinitrotoluene	121-14-2/ 204-450-0	0.050	17	Anthracene oil*	90640-80-5/ 292-602-7	0.050
18	Anthracene oil, anthracene paste*	90640-81-6/ 292-603-2	0.050	19	Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2/ 295-275-9	0.050
20	Anthracene oil, anthracene paste; distn. Lights*	91995-17-4/ 295-278-5	0.050	21	Anthracene oil, anthracene-low*	90640-82-7/ 292-604-8	0.050
22	Diisobutyl phthalate	84-69-5/ 201-553-2	0.050	23	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8/ 235-759-9	0.005
24	Lead chromate*	7758-97-6/ 231-846-0	0.005	25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2/ 215-693-7	0.005
26	Pitch, coal tar, high temp.*	65996-93-2/ 266-028-2	0.050	27	Tris(2-chloroethyl)phosphate	115-96-8/ 204-118-5	0.050
Candidate List of Substances of Very High Concern (SVHC) for authorization published on March 30, 2010							
28	Acrylamide	79-06-1/ 201-173-7	0.050				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on June 18, 2010							
29	Ammonium dichromate*	7789-09-5/ 232-143-1	0.005	30	Boric acid*	10043-35-3; 11113-50-1/ 233-139-2; 234-343-4	0.005
31	Disodium tetraborate, anhydrous*	1303-96-4 1330-43-4 12179-04-3/ 215-540-4	0.005	32	Potassium chromate*	7789-00-6/ 232-140-5	0.005
33	Potassium dichromate*	7778-50-9/ 231-906-6	0.005	34	Sodium chromate*	7775-11-3/ 231-889-5	0.005
35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1/ 235-541-3	0.005	36	Trichloroethylene	79-01-6/ 201-167-4	0.005
Candidate List of Substances of Very High Concern (SVHC) for authorization published on December 15, 2010							
37	2-Ethoxyethanol	110-80-5/ 203-804-1	0.050	38	2-Methoxyethanol	109-86-4/ 203-713-7	0.050
39	Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2 -/ 231-801-5 236-881-5 -	0.005	40	Chromium trioxide*	1333-82-0/ 215-607-8	0.005
41	Cobalt(II) carbonate*	513-79-1/ 208-169-4	0.005	42	Cobalt(II) diacetate*	71-48-7/ 200-755-8	0.005

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
43	Cobalt(II) dinitrate*	10141-05-6/ 233-402-1	0.005	44	Cobalt(II) sulphate*	10124-43-3/ 233-334-2	0.005
Candidate List of Substances of Very High Concern (SVHC) for authorization published on June 20, 2011							
45	1,2,3-Trichloropropane	96-18-4/ 202-486-1	0.050	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6/ 276-158-1	0.050
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4/ 271-084-6	0.050	48	1-Methyl-2-pyrrolidone	872-50-4/ 212-828-1	0.050
49	2-Ethoxyethyl acetate	111-15-9/ 203-839-2	0.050	50	Hydrazine	7803-57-8 302-01-2/ 206-114-9	0.050
51	Strontium chromate*	7789-06-2/ 232-142-6	0.005				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on December 19, 2011							
52	1,2-Dichloroethane	107-06-2/ 203-458-1	0.050	53	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4/ 202-918-9	0.050
54	2-Methoxyaniline	90-04-0/ 201-963-1	0.050	55	4-tert-Octylphenol	140-66-9/ 205-426-2	0.050
56	Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005	57	Arsenic acid*	7778-39-4/ 231-901-9	0.005
58	Bis(2-methoxyethyl) ether	111-96-6/ 203-924-4	0.050	59	Bis(2-methoxyethyl) phthalate	117-82-8/ 204-212-6	0.050
60	Calcium arsenate*	7778-44-1/ 231-904-5	0.005	61	Dichromium tris(chromate) *	24613-89-6/ 246-356-2	0.005
62	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4/ 500-036-1	0.050	63	Lead diazide*	13424-46-9/ 236-542-1	0.005
64	Lead dipicrate*	6477-64-1/ 229-335-2	0.005	65	Lead styphnate*	15245-44-0/ 239-290-0	0.005
66	N,N-dimethylacetamide (DMAC)	127-19-5/ 204-826-4	0.050	67	Pentazinc chromate octahydroxide*	49663-84-5/ 256-418-0	0.005
68	Phenolphthalein	77-09-8/ 201-004-7	0.050	69	Potassium hydroxyoctaoxidizincatedichromate*	11103-86-9/ 234-329-8	0.005
70	Trilead diarsenate*	3687-31-8/ 222-979-5	0.005	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005
Candidate List of Substances of Very High Concern (SVHC) for authorization published on June 18, 2012							
72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5/ 219-943-6	0.050	73	[4-[[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9/ 208-953-6	0.050
74	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2/ 203-977-3	0.050	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4/ 203-794-9	0.050
76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8/ 202-027-5	0.050	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1/ 209-218-2	0.050
78	Diboron trioxide*	1303-86-2/ 215-125-8	0.005	79	Formamide	75-12-7/ 200-842-0	0.050
80	Lead(II) bis(methanesulfonate)*	17570-76-2/ 401-750-5	0.005	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1/ 202-959-2	0.050
82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9/ 219-514-3	0.050	83	α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0/ 229-851-8	0.050
84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6/ 423-400-0	0.050				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on December 19, 2012							
85	[Phthalato(2-)]dioxotrilead *	69011-06-9/ 273-688-5	0.005	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0/ 284-032-2	0.050
87	1,2-Diethoxyethane	629-14-1/ 211-076-1	0.050	88	1-Bromopropane	106-94-5/ 203-445-0	0.050
89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2/ 421-150-7	0.050	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
91	4,4'-Methylenedi- <i>o</i> -toluidine	838-88-0/ 212-658-8	0.050	92	4,4'-Oxydianiline	101-80-4/ 202-977-0	0.050
93	4-Aminoazobenzene	60-09-3/ 200-453-6	0.050	94	4-Methyl- <i>m</i> -phenylenediamine	95-80-7/ 202-453-1	0.050

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95	4-Nonylphenol, branched and linear	-	0.050	96	6-Methoxy- <i>m</i> -toluidine	120-71-8/ 204-419-1	0.050
97	Acetic acid, lead salt, basic*	51404-69-4/ 257-175-3	0.005	98	Biphenyl-4-ylamine	92-67-1/ 202-177-1	0.050
99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5/ 214-604-9	0.050	100	C,C'-azodi(formamide) (ADCA)	123-77-3/ 204-650-8	0.050
101	Dibutyltin dichloride (DBT)	683-18-1/ 211-670-0	0.050	102	Diethyl sulphate	64-67-5/ 200-589-6	0.050
103	Diisopentylphthalate (DIPP)	605-50-5/ 210-088-4	0.050	104	Dimethyl sulphate	77-78-1/ 201-058-1	0.050
105	Dinoseb	88-85-7/ 201-861-7	0.050	106	Dioxobis(stearato)trilead*	12578-12-0/ 235-702-8	0.005
107	Fatty acids, C16-18, lead salts*	91031-62-8/ 292-966-7	0.005	108	Furan	110-00-9/ 203-727-3	0.050
109	Henicosfluoroundecanoic acid	2058-94-8/ 218-165-4	0.050	110	Heptacosfluorotetradecanoic acid	376-06-7/ 206-803-4	0.050
111	Hexahydro-2-benzofuran-1,3-dione, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3/ 201-604-9, 236-086-3, 238-009-9	0.050	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9/ 247-094-1, 243-072-0, 256-356-4, 260-566-1	0.050
113	Lead bis(tetrafluoroborate) *	13814-96-5/ 237-486-0	0.005	114	Lead cyanamidate*	20837-86-9/ 244-073-9	0.005
115	Lead dinitrate*	10099-74-8/ 233-245-9	0.005	116	Lead monoxide *	1317-36-8/ 215-267-0	0.005
117	Lead oxide sulphate *	12036-76-9/ 234-853-7	0.005	118	Lead tetroxide *	1314-41-6/ 215-235-6	0.005
119	Lead titanium trioxide*	12060-00-3/ 235-038-9	0.005	120	Lead titanium zirconium oxide*	12626-81-2/ 235-727-4	0.005
121	Methoxyacetic acid	625-45-6/ 210-894-6	0.050	122	N,N-Dimethylformamide	68-12-2/ 200-679-5	0.050
123	N-Methylacetamide	79-16-3/ 201-182-6	0.050	124	N-Pentyl-isopentylphthalate	776297-69-9 /-	0.050
125	<i>o</i> -Aminoazotoluene	97-56-3/ 202-591-2	0.050	126	<i>o</i> -Toluidine	95-53-4/ 202-429-0	0.050
127	Pentacosfluorotridecanoic acid	72629-94-8/ 276-745-2	0.050	128	Pentalead tetraoxide sulphate*	12065-90-6/ 235-067-7	0.005
129	Propylene oxide	75-56-9/ 200-879-2	0.050	130	Pyrochlore, antimony lead yellow*	8012-00-8/ 232-382-1	0.005
131	Silicic acid, barium salt, lead-doped*	68784-75-8/ 272-271-5	0.005	132	Silicic acid, lead salt*	11120-22-2/ 234-363-3	0.005
133	Sulfurous acid, lead salt, dibasic*	62229-08-7/ 263-467-1	0.005	134	Tetraethyllead*	78-00-2/ 201-075-4	0.005
135	Tetralead trioxide sulphate*	12202-17-4/ 235-380-9	0.005	136	Tricosfluorododecanoic acid	307-55-1/ 206-203-2	0.050
137	Trilead bis(carbonate)dihydroxide*	1319-46-6/ 215-290-6	0.005	138	Trilead dioxide phosphonate*	12141-20-7/ 235-252-2	0.005
Candidate List of Substances of Very High Concern (SVHC) for authorization published on June 20, 2013							
139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050	140	Ammoniumpentadecafluorooxanoate (APFO)	3825-26-1/ 223-320-4	0.050
141	Cadmium*	7440-43-9/ 231-152-8	0.005	142	Cadmium oxide*	1306-19-0/ 215-146-2	0.005
143	Di-n-pentyl phthalate	131-18-0/ 205-017-9	0.050	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1/ 206-397-9	0.050
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec. 16, 2013							
145	Cadmium sulphide*	1306-23-6 / 215-147-8	0.005	146	Dihexyl phthalate	84-75-3 / 201-559-5	0.05
147	Disodium 3,3'-[[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0 / 209-358-4	0.05	148	Disodium 4-amino-3-[[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7/ 17-710-3	0.05

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7/ 202-506-9	0.05	150	Lead di(acetate)*	301-04-2/ 206-104-4	0.005
151	Trixylyl phosphate	25155-23-1/ 246-677-8	0.05				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on June 16, 2014							
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4 / 271-093-5	0.05	153	Cadmium chloride*	10108-64-2/ 233-296-7	0.005
154	Sodium perborate; perboric acid, sodium salt*	-/239-172-9; 234-390-0	0.005	155	Sodium peroxometaborate*	7632-04-4 / 231-556-4	0.005
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec. 17, 2014							
156	Cadmium sulphate	10124-36-4; 31119-53-6/ 233-331-6	0.005	157	Cadmium fluoride	7790-79-6/ 232-222-0	0.005
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7/ 223-346-6	0.05	159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1/ 247-384-8	0.05
160	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-/	0.05	161	Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7/ 204-211-0	0.05
Candidate List of Substances of Very High Concern (SVHC) for authorization published on June 15, 2015							
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1 / 271-094-0, 272-013-1	0.05	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	/	0.05

Notes :

1. RL = Reporting Limit. All RL are based on homogenous material
2. * The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm

The client is advised to review the chemical formulation to ascertain above metal substances present in the article.

RL = 0.05% for organic substances, 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, sodium, chromium, chromium (VI), silicon, aluminum, zirconium, zinc, antimony, calcium, titanium, barium, potassium, strontium and cadmium respectively), except molybdenum RL = 0.0005%, boron RL = 0.0025%.

Tested by relevant SGS laboratory.

*** End of Report ***