

Test Report

KE/2013/11479

Date : 2013/01/21

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Nam Liong Enterprise Co., Ltd.
No.10, Ln. 41, Zhouwei St., Yongkang Dist.,
Tainan City 71044, Taiwan (R.O.C.)

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

Product Name : Self-adhesive Tapes
Color : White
Material Composition : Nylon+TPR
Sample Submitted By : Nam Liong Enterprise Co., Ltd.
Date of Sample Received : 2013/01/15
Testing Period : 2013/01/15 to 2013/01/21

Test Requested :

As requested by client, SVHC screening is performed according to:

- One hundred and thirty-eight (138) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before December 19, 2012 regarding Regulation (EC) No 1907/2006 concerning the REACH.

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



Jerry Tung / Supervisor
Signed for and on behalf of
SGS Taiwan Limited

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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 list is under evaluation by ECHA and may subject to change in the future.
2. Test results in this report are based on the tested sample.
This report refers to testing result of composite material group by equal weight proportion. The material in each composite test group may come from more than one article.
3. 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
4. If a SVHC is found over 0.1% (w/w), 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.
5. If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

Test Sample:

Sample Description:

Group No.	Component No.	Component Description
A	1	White Hook
B	2	White Loop

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Test Method :

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

Test Result (per test group):

Substance Name	CAS No.	EC No.	Concentration (%)	RL (%)
1,2,3-Trichloropropane	96-18-4	202-486-1	ND	0.050
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	ND	0.050
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	ND	0.050
1,2-Dichloroethane	107-06-2	203-458-1	ND	0.050
1-Methyl-2-pyrrolidone	872-50-4	212-828-1	ND	0.050
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	ND	0.050
2,4-Dinitrotoluene	121-14-2	204-450-0	ND	0.050
2-Ethoxyethanol	110-80-5	203-804-1	ND	0.050
2-Ethoxyethyl acetate	111-15-9	203-839-2	ND	0.050
2-Methoxyaniline	90-04-0	201-963-1	ND	0.050
2-Methoxyethanol	109-86-4	203-713-7	ND	0.050
4,4'-Diaminodiphenylmethane (MDA)	101-77-9	202-974-4	ND	0.050
4-tert-Octylphenol	140-66-9	205-426-2	ND	0.050
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	ND	0.050
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 -	ND	0.005
Acrylamide	79-06-1	201-173-7	ND	0.050
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	ND	0.050
Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	-	ND	0.005
Ammonium dichromate*	7789-09-5	232-143-1	ND	0.005
Anthracene	120-12-7	204-371-1	ND	0.050
Anthracene oil*	90640-80-5	292-602-7	ND	0.050
Anthracene oil, anthracene paste*	90640-81-6	292-603-2	ND	0.050
Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2	295-275-9	ND	0.050
Anthracene oil, anthracene paste; distr. Lights*	91995-17-4	295-278-5	ND	0.050
Anthracene oil, anthracene-low*	90640-82-7	292-604-8	ND	0.050

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Substance Name	CAS No.	EC No.	Concentration (%)	RL (%)
Arsenic acid*	7778-39-4	231-901-9	ND	0.005
Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	ND	0.050
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	204-211-0	ND	0.050
Bis(2-methoxyethyl) ether	111-96-6	203-924-4	ND	0.050
Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	ND	0.050
Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	ND	0.050
Boric acid*	10043-35-3; 11113-50-1	233-139-2; 234-343-4	ND	0.005
Calcium arsenate*	7778-44-1	231-904-5	ND	0.005
Chromium trioxide*	1333-82-0	215-607-8	ND	0.005
Cobalt dichloride*	7646-79-9	231-589-4	ND	0.005
Cobalt(II) carbonate*	513-79-1	208-169-4	ND	0.005
Cobalt(II) diacetate*	71-48-7	200-755-8	ND	0.005
Cobalt(II) dinitrate*	10141-05-6	233-402-1	ND	0.005
Cobalt(II) sulphate*	10124-43-3	233-334-2	ND	0.005
Diarsenic pentaoxide*	1303-28-2	215-116-9	ND	0.005
Diarsenic trioxide*	1327-53-3	215-481-4	ND	0.005
Dibutyl phthalate (DBP)	84-74-2	201-557-4	ND	0.050
Dichromium tris(chromate) *	24613-89-6	246-356-2	ND	0.005
Diisobutyl phthalate	84-69-5	201-553-2	ND	0.050
Disodium tetraborate, anhydrous*	1303-96-4 1330-43-4 12179-04-3	215-540-4	ND	0.005
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	ND	0.050
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	ND	0.050
Hydrazine	7803-57-8 302-01-2	206-114-9	ND	0.050
Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	ND	0.005
Lead chromate*	7758-97-6	231-846-0	ND	0.005
Lead diazide*	13424-46-9	236-542-1	ND	0.005
Lead dipicrate*	6477-64-1	229-335-2	ND	0.005
Lead hydrogen arsenate*	7784-40-9	232-064-2	ND	0.005
Lead styphnate*	15245-44-0	239-290-0	ND	0.005
Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	ND	0.005
N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	ND	0.050
Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	ND	0.005
Phenolphthalein	77-09-8	201-004-7	ND	0.050
Pitch, coal tar, high temp.*	65996-93-2	266-028-2	ND	0.050
Potassium chromate*	7789-00-6	232-140-5	ND	0.005

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Substance Name	CAS No.	EC No.	Concentration (%)	RL (%)
Potassium dichromate*	7778-50-9	231-906-6	ND	0.005
Potassium hydroxyoctaoxidizincatedichromate*	11103-86-9	234-329-8	ND	0.005
Sodium chromate*	7775-11-3	231-889-5	ND	0.005
Sodium dichromate*	7789-12-0 10588-01-9	234-190-3	ND	0.005
Strontium chromate*	7789-06-2	232-142-6	ND	0.005
Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	ND	0.005
Trichloroethylene	79-01-6	201-167-4	ND	0.050
Triethyl arsenate*	15606-95-8	427-700-2	ND	0.005
Trilead diarsenate*	3687-31-8	222-979-5	ND	0.005
Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	ND	0.050
Zirconia Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	-	ND	0.005
[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	ND	0.050
[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	ND	0.050
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	ND	0.050
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	ND	0.050
4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	202-027-5	ND	0.050
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	ND	0.050
Diboron trioxide*	1303-86-2	215-125-8	ND	0.005
Formamide	75-12-7	200-842-0	ND	0.050
Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	ND	0.005
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	ND	0.050
TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	ND	0.050
α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	ND	0.050
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	ND	0.050

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Substance Name	CAS No.	EC No.	Concentration (%)	RL (%)
[Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	ND	0.005
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	ND	0.050
1,2-Diethoxyethane	629-14-1	211-076-1	ND	0.050
1-Bromopropane	106-94-5	203-445-0	ND	0.050
3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	ND	0.050
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-	ND	0.050
4,4'-Methylenedi-o-toluidine	838-88-0	212-658-8	ND	0.050
4,4'-Oxydianiline	101-80-4	202-977-0	ND	0.050
4-Aminoazobenzene	60-09-3	200-453-6	ND	0.050
4-Methyl- <i>m</i> -phenylenediamine	95-80-7	202-453-1	ND	0.050
4-Nonylphenol, branched and linear- [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	-	ND	0.050
6-Methoxy- <i>m</i> -toluidine	120-71-8	204-419-1	ND	0.050
Acetic acid, lead salt, basic*	51404-69-4	257-175-3	ND	0.005
Biphenyl-4-ylamine	92-67-1	202-177-1	ND	0.050
Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	ND	0.050
C,C'-azodi(formamide) (ADCA)	123-77-3	204-650-8	ND	0.050
Dibutyltin dichloride (DBT) *	683-18-1	211-670-0	ND	0.050
Diethyl sulphate	64-67-5	200-589-6	ND	0.050
Diisopentylphthalate (DIPP)	605-50-5	210-088-4	ND	0.050
Dimethyl sulphate	77-78-1	201-058-1	ND	0.050
Dinoseb	88-85-7	201-861-7	ND	0.050
Dioxobis(stearato)trilead*	12578-12-0	235-702-8	ND	0.005
Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	ND	0.005
Furan	110-00-9	203-727-3	ND	0.050
Henicosaflluoroundecanoic acid	2058-94-8	218-165-4	ND	0.050
Heptacosaflluorotetradecanoic acid	376-06-7	206-803-4	ND	0.050
Hexahydro-2-benzofuran-1,3-dione, <i>cis</i> -cyclohexane-1,2-dicarboxylic anhydride, <i>trans</i> -cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	ND	0.050

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Substance Name	CAS No.	EC No.	Concentration (%)	RL (%)
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	ND	0.050
Lead bis(tetrafluoroborate) *	13814-96-5	237-486-0	ND	0.005
Lead cyanamidate*	20837-86-9	244-073-9	ND	0.005
Lead dinitrate*	10099-74-8	233-245-9	ND	0.005
Lead monoxide *	1317-36-8	215-267-0	ND	0.005
Lead oxide sulphate *	12036-76-9	234-853-7	ND	0.005
Lead tetroxide *	1314-41-6	215-235-6	ND	0.005
Lead titanium trioxide*	12060-00-3	235-038-9	ND	0.005
Lead titanium zirconium oxide*	12626-81-2	235-727-4	ND	0.005
Methoxyacetic acid	625-45-6	210-894-6	ND	0.050
N,N-Dimethylformamide	68-12-2	200-679-5	ND	0.050
N-Methylacetamide	79-16-3	201-182-6	ND	0.050
N-Pentyl-isopentylphthalate	776297-69-9	-	ND	0.050
o-Aminoazotoluene	97-56-3	202-591-2	ND	0.050
o-Toluidine	95-53-4	202-429-0	ND	0.050
Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	ND	0.050
Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	ND	0.005
Propylene oxide	75-56-9	200-879-2	ND	0.050
Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	ND	0.005
Silicic acid, barium salt, lead-doped*	68784-75-8	272-271-5	ND	0.005
Silicic acid, lead salt*	11120-22-2	234-363-3	ND	0.005
Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	ND	0.005
Tetraethyllead*	78-00-2	201-075-4	ND	0.005
Tetralead trioxide sulphate*	12202-17-4	235-380-9	ND	0.005
Tricosafuorododecanoic acid	307-55-1	206-203-2	ND	0.050
Trilead bis(carbonate)dihydroxide*	1319-46-6	215-290-6	ND	0.005
Trilead dioxide phosphonate*	12141-20-7	235-252-2	ND	0.005

Notes :

1. RL = Reporting Limit. All RL are based on homogenous material
2. ND = Not detected (lower than RL). ND is denoted on the SVHC substance.
3. ^Δ CAS No. of diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6, 134237-51-7, 134237-52-8
4. * 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 = 0.005% is evaluated for element (i.e. Boron, cobalt, arsenic, lead, chromium (VI), barium respectively).

Sample photo:

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SGS authenticate the photo on original report only

*** End of Report ***