



Test Report

Number: 140301313SHA-002

Date: Mar. 31, 2014

Sample Description:

Twenty (20) submitted samples said to be:

- (A) Transparent glue stick
- (B) Semi-transparent glue stick
- (C) Light yellow glue stick
- (D) White thick glue stick
- (E) Flash violet glue stick
- (F) Flash yellow glue stick
- (G) Flash silvery glue stick
- (H) Flash navy blue glue stick
- (I) Flash red glue stick
- (J) Flash green glue stick
- (K) Flash purplish red glue stick
- (L) Flash white glue stick
- (M) Violet glue stick
- (N) Black glue stick
- (O) Pink glue stick
- (P) White thin glue stick
- (Q) Yellow glue stick
- (R) Navy blue glue stick
- (S) Brown glue stick
- (T) Red glue stick

Item Name : Glue sticks

Tests conducted:

As requested by the applicant, for details refer to attached page(s).

Conclusion:

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Submitted Samples	EU REACH Regulation No 1907/2006 Article 33(1) Obligation to provide information of safe use (see REACH requirement in report for details)	See Test Result

To be continued

Prepared and check by:
For Intertek Testing Services Ltd., Shanghai

Joy Zhou

Authorized by:
For Intertek testing services Ltd., Shanghai

Jonny Jing
Manager



Tests Conducted

1. SVHC Testing Results

By a Combination of X-Ray Fluorescence Spectroscopy, Inductively Coupled Argon Plasma Spectrometry, Gas Chromatography – Mass Spectrometry, Liquid Chromatography - Mass Spectrometry, UV-VIS Spectrophotometer, Ion Chromatography, Gas Chromatography - Electron Capture Detector, Headspace Gas Chromatography - Mass Spectrometry and High-Performance Liquid Chromatography.

<u>Chemical Substance</u>	<u>EC No.</u>	<u>CAS No.</u>	<u>Results % (w/w) (A-T)</u>
Cobalt Dichloride *	231-589-4	7646-79-9	<0.05
Diarsenic Pentaoxide *	215-116-9	1303-28-2	<0.05
Diarsenic Trioxide *	215-481-4	1327-53-3	<0.05
Lead Hydrogen Arsenate *	232-064-2	7784-40-9	<0.05
Triethyl Arsenate *	427-700-2	15606-95-8	<0.05
Sodium Dichromate *	234-190-3	7789-12-0, 10588-01-9	<0.05
Bis (Tributyltin) Oxide (TBTO)*	200-268-0	56-35-9	<0.05
Anthracene	204-371-1	120-12-7	<0.05
4,4'-Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	<0.05
Hexabromocyclododecane (HBCDD) and All Major Diastereoisomers Identified (α-HBCDD, β-HBCDD, γ-HBCDD)	247-148-4 221-695-9	25637-99-4 and 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	<0.05
5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	201-329-4	81-15-2	<0.05
Bis (2-Ethylhexyl) Phthalate (DEHP)	204-211-0	117-81-7	<0.05
Dibutyl Phthalate (DBP)	201-557-4	84-74-2	<0.05
Benzyl Butyl Phthalate (BBP)	201-622-7	85-68-7	<0.05
Short Chain Chlorinated Paraffins (C ₁₀₋₁₃)	287-476-5	85535-84-8	<0.05
Lead Chromate *	231-846-0	7758-97-6	<0.05
Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) *	235-759-9	12656-85-8	<0.05
Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) *	215-693-7	1344-37-2	<0.05
Tris (2-Chloroethyl) Phosphate	204-118-5	115-96-8	<0.05
2,4-Dinitrotoluene	204-450-0	121-14-2	<0.05
Diisobutyl Phthalate (DIBP)	201-553-2	84-69-5	<0.05
Coal Tar Pitch, High Temperature	266-028-2	65996-93-2	<0.05
Anthracene Oil	292-602-7	90640-80-5	<0.05
Anthracene Oil, Anthracene Paste, Distn. Lights	295-278-5	91995-17-4	<0.05

To be continued



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Chemical Substance	EC No.	CAS No.	Results % (w/w) Per Whole Product
Anthracene Oil, Anthracene Paste, Anthracene Fraction	295-275-9	91995-15-2	<0.05
Anthracene Oil, Anthracene-low	292-604-8	90640-82-7	<0.05
Anthracene Oil, Anthracene Paste	292-603-2	90640-81-6	<0.05
Acrylamide	201-173-7	79-06-1	<0.05
Boric Acid *	233-139-2/ 234-343-4	10043-35-3, 11113-50-1	<0.05
Disodium Tetraborate, Anhydrous *	215-540-4	1330-43-4, 12179-04-3, 1303-96-4	<0.05
Tetraboron Disodium Heptaoxide, Hydrate *	235-541-3	12267-73-1	<0.05
Sodium Chromate *	231-889-5	7775-11-3	<0.05
Potassium Chromate *	232-140-5	7789-00-6	<0.05
Ammonium Dichromate *	232-143-1	7789-09-5	<0.05
Potassium Dichromate *	231-906-6	7778-50-9	<0.05
Trichloroethylene	201-167-4	79-01-6	<0.05
2-Methoxyethanol	203-713-7	109-86-4	<0.05
2-Ethoxyethanol	203-804-1	110-80-5	<0.05
Cobalt Sulphate *	233-334-2	10124-43-3	<0.05
Cobalt Dinitrate *	233-402-1	10141-05-6	<0.05
Cobalt Carbonate *	208-169-4	513-79-1	<0.05
Cobalt Diacetate *	200-755-8	71-48-7	<0.05
Chromium Trioxide *	215-607-8	1333-82-0	<0.05
Chromic Acid * Dichromic Acid * Oligomers of Chromic Acid and Dichromic Acid *	231-801-5 236-881-5	7738-94-5 13530-68-2 --	<0.05
Strontium Chromate*	232-142-6	7789-06-2	<0.05
2-ethoxyethyl acetate (2-EEA)	203-839-2	111-15-9	<0.05
1,2-Benzenedicarboxylic acid, di-C ₇₋₁₁ -branched and linear alkyl esters (DHNUP)	271-084-6	68515-42-4	<0.05
Hydrazine	206-114-9	7803-57-8 302-01-2	<0.05
1-methyl-2-pyrrolidone	212-828-1	872-50-4	<0.05
1,2,3-trichloropropane	202-486-1	96-18-4	<0.05
1,2-Benzenedicarboxylic acid, di-C ₆₋₈ -branched alkyl esters, C ₇ -rich (DIHP)	276-158-1	71888-89-6	<0.05
Lead dipicrate*	229-335-2	6477-64-1	<0.05
Lead styphnate*	239-290-0	15245-44-0	<0.05
Lead azide; Lead diazide*	236-542-1	13424-46-9	<0.05

To be continued

Tests Conducted

Chemical Substance	EC No.	CAS No.	Results % (w/w) Per Whole Product
Phenolphthalein	201-004-7	77-09-8	<0.05
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	202-918-9	101-14-4	<0.05
N,N-dimethylacetamide (DMAC)	204-826-4	127-19-5	<0.05
Trilead diarsenate*	222-979-5	3687-31-8	<0.05
Calcium arsenate*	231-904-5	7778-44-1	<0.05
Arsenic acid*	231-901-9	7778-39-4	<0.05
Bis(2-methoxyethyl) ether	203-924-4	111-96-6	<0.05
1,2-Dichloroethane	203-458-1	107-06-2	<0.05
4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	205-426-2	140-66-9	<0.05
2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	<0.05
Bis(2-methoxyethyl) phthalate (DMEP)	204-212-6	117-82-8	<0.05
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	500-036-1	25214-70-4	<0.05
Pentazinc chromate octahydroxide*	256-418-0	49663-84-5	<0.05
Potassium hydroxyoctaoxodizincate dichromate*	234-329-8	11103-86-9	<0.05
Dichromium tris(chromate)*	246-356-2	24613-89-6	<0.05
Aluminosilicate Refractory Ceramic Fibres *	Extracted from index no. 650-017-00-8	(Index No. 650-017-00-8)	<0.05
Zirconia Aluminosilicate Refractory Ceramic Fibres *	Extracted from index no. 650-017-00-8	(Index No. 650-017-00-8)	<0.05
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2	<0.05
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	<0.05
Diboron trioxide*	215-125-8	1303-86-2	<0.05
Formamide	200-842-0	1975-12-7	<0.05
Lead(II) bis(methanesulfonate) *	401-750-5	17570-76-2	<0.05
TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	219-514-3	2451-62-9	<0.05
β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	423-400-0	59653-74-6	<0.05
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	<0.05
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	<0.05

To be continued

Tests Conducted

Chemical Substance	EC No.	CAS No.	Results % (w/w) Per Whole Product
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	208-953-6	548-62-9	<0.05
[4-[[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	219-943-6	2580-56-5	<0.05
α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	229-851-8	6786-83-0	<0.05
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	209-218-2	561-41-1	<0.05
Bis(pentabromophenyl) ether (DecaBDE)	214-604-9	1163-19-5	<0.05
Pentacosafuorotridecanoic acid	276-745-2	72629-94-8	<0.05
Tricosafuorododecanoic acid	206-203-2	307-55-1	<0.05
Henicosafuoroundecanoic acid	218-165-4	2058-94-8	<0.05
Heptacosafuorotetradecanoic acid	206-803-4	376-06-7	<0.05
4-(1,1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues	-	-	<0.05

To be continued

Tests Conducted

<u>Chemical Substance</u>	<u>EC No.</u>	<u>CAS No.</u>	<u>Results % (w/w) Per Whole Product</u>
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	-	-	<0.05
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3	<0.05
Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	201-604-9	85-42-7	<0.05
Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	<0.05
Methoxy acetic acid	210-894-6	625-45-6	<0.05
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	<0.05
Diisopentylphthalate (DIPP)	210-088-4	605-50-5	<0.05
N-pentyl-isopentylphthalate	-	-	<0.05
1,2-Diethoxyethane	211-076-1	629-14-1	<0.05
N,N-dimethylformamide; dimethyl formamide	200-679-5	68-12-2	<0.05
Dibutyltin dichloride (DBT)*	211-670-0	683-18-1	<0.05
Acetic acid, lead salt, basic*	257-175-3	51404-69-4	<0.05
Basic lead carbonate (trilead bis(carbonate)dihydroxide)*	215-290-6	1319-46-6	<0.05
Lead oxide sulfate (basic lead sulfate)*	234-853-7	12036-76-9	<0.05
[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)*	273-688-5	69011-06-9	<0.05
Dioxobis(stearato)trilead*	235-702-8	12578-12-0	<0.05
Fatty acids, C16-18, lead salts*	292-966-7	91031-62-8	<0.05
Lead bis(tetrafluoroborate)*	237-486-0	13814-96-5	<0.05
Lead cyanamate*	244-073-9	20837-86-9	<0.05

To be continued

Tests Conducted

Chemical Substance	EC No.	CAS No.	Results % (w/w) Per Whole Product
Lead dinitrate*	233-245-9	10099-74-8	<0.05
Lead oxide (lead monoxide)*	215-267-0	1317-36-8	<0.05
Lead tetroxide (orange lead)*	215-235-6	1314-41-6	<0.05
Lead titanium trioxide*	235-038-9	12060-00-3	<0.05
Lead Titanium Zirconium Oxide*	235-727-4	12626-81-2	<0.05
Pentalead tetraoxide sulphate*	235-067-7	12065-90-6	<0.05
Pyrochlore, antimony lead yellow*	232-382-1	8012-00-8	<0.05
Silicic acid, barium salt, lead-doped*	272-271-5	68784-75-8	<0.05
Silicic acid, lead salt*	234-363-3	11120-22-2	<0.05
Sulfurous acid, lead salt, dibasic*	263-467-1	62229-08-7	<0.05
Tetraethyllead*	201-075-4	78-00-2	<0.05
Tetralead trioxide sulphate*	235-380-9	12202-17-4	<0.05
Trilead dioxide phosphonate*	235-252-2	12141-20-7	<0.05
Furan	203-727-3	110-00-9	<0.05
Propylene oxide; 1,2-epoxypropane; methyloxirane	200-879-2	75-56-9	<0.05
Diethyl sulphate	200-589-6	64-67-5	<0.05
Dimethyl sulphate	201-058-1	77-78-1	<0.05
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	<0.05
Dinoseb	201-861-7	88-85-7	<0.05
4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	<0.05
4,4'-oxydianiline and its salts	202-977-0	101-80-4	<0.05
4-Aminoazobenzene; 4-Phenylazoaniline	200-453-6	1960-9-3	<0.05
4-methyl-m-phenylenediamine (2,4-toluene-diamine)	202-453-1	95-80-7	<0.05
6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	<0.05
Biphenyl-4-ylamine	202-177-1	92-67-1	<0.05
o-aminoazotoluene	202-591-2	97-56-3	<0.05
o-Toluidine; 2-Aminotoluene	202-429-0	95-53-4	<0.05
N-methylacetamide	201-182-6	79-16-3	<0.05
1-bromopropane; n-propyl bromide	203-445-0	106-94-5	<0.05
Cadmium*	231-152-8	7440-43-9	<0.05
Cadmium oxide*	215-146-2	1306-19-0	<0.05
Dipentyl phthalate (DPP)	205-017-9	131-18-0	<0.05

To be continued

Tests Conducted

<u>Chemical Substance</u>	<u>EC No.</u>	<u>CAS No.</u>	<u>Results % (w/w) Per Whole Product</u>
4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	--	--	<0.05
Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	<0.05
Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	<0.05
Cadmium sulphide*	215-147-8	1306-23-6	<0.05
Lead di(acetate)*	206-104-4	301-04-2	<0.05
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)	217-710-3	1937-37-7	<0.05
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0	<0.05
Dihexyl phthalate	201-559-5	84-75-3	<0.05
Imidazolidine-2-thione; (2-imidazoline-2-thiol)	202-506-9	96-45-7	<0.05
Trixylyl phosphate	246-677-8	25155-23-1	<0.05

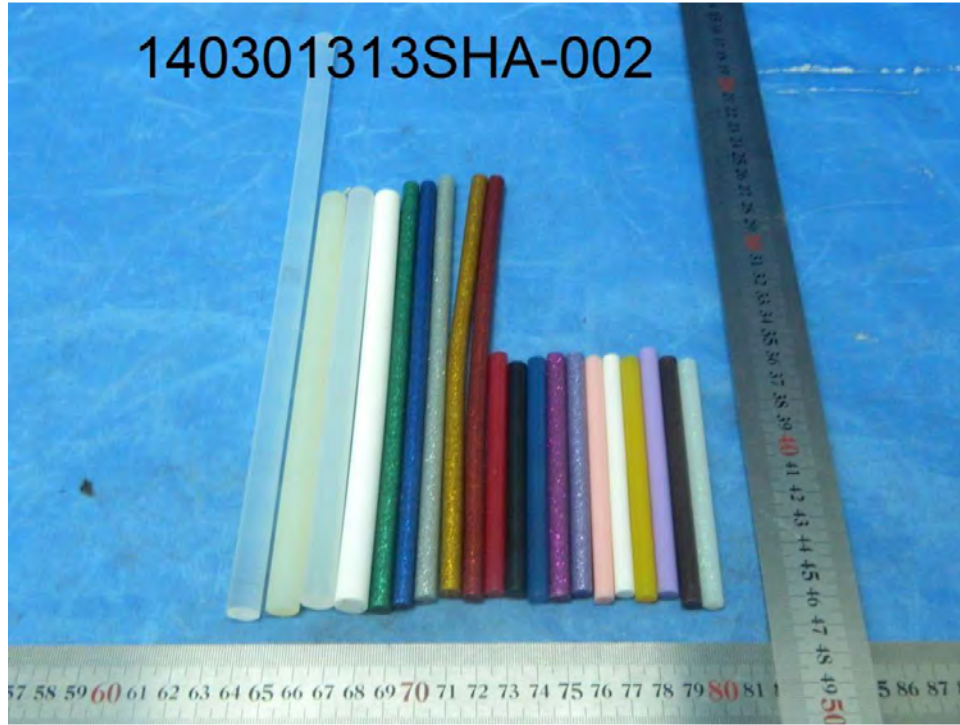
Remarks: SVHC = Substance of Very High Concern
 * = determination was based on elemental analysis
 Materials were screened in composite and results were reported in proportion with the whole product weight.

REACH requirement: As per Article 33(1) of the REACH Regulation (EC1907/2006), recipients of product must be provided with information of safe use if any of the tested substances (SVHC) exceeded 0.1% (w/w). A product meets the requirement of Article 33(1) by default when no SVHC exceeds 0.1% (w/w).

Date sample received: Mar. 21, 2014
 Testing period: Mar. 21, 2014 To Mar. 28, 2014

To be continued

Tests Conducted



End of report

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