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Test Report (SVHC)

No. : CC/2014/40095B Date : 2014/07/01

FORMOSA CHEMICALS & FIBRE CORPORATION
201, TUNG HWA N. ROAD, TAIPEI, TAIWAN, R. O. C.

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

Sample Submitted By	:	FORMOSA CHEMICALS & FIBRE CORPORATION
Sample Description	:	POLYPROPYLENE HOMO POLYMER
Style/Item No.	:	TAIRIPRO PP B1101, F1611, F2003, F2011, K1011, K1011AH, K1011AT, K1023, K1035, K1060, K1080, K1108, K1525, K1P35, K2038, K2051, K2065, S1003, S1005, S1019, S1023, S1040, S1803, S2023, S2035, S2123, T1002, T1202, T2502
Sample Receiving Date	:	2014/04/14
Testing Period	:	2014/04/14 TO 2014/04/21

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Test Requested	:	155 Substances of Very High Concern (SVHC) screening. SVHC candidate list based on the publication by European Chemicals Agency (ECHA) on 2014 June 16, regarding Regulation (EC) No 1907/2006 concerning the REACH.
Test Method	:	Please refer to next page(s).
Test Result(s)	:	Please refer to next page(s).
Summary	:	According to the interpretation of ECHA and the majority of EU member states on the definition of an article as well as the specified scope and analytical technique, concentrations of all SVHC are <0.1% in the submitted sample(s).

SGS TAIWAN LTD

Edison Chang / Sr. Supervisor
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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Test Report (SVHC)

FORMOSA CHEMICALS & FIBRE CORPORATION
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Test Sample : TRANSLUCENT-WHITE PLASTIC PELLETS

Test Method : SGS In-House method-RSTS-EE-SVHC-007. Analyzed by ICP-AES, UV-VIS, GC/MS, LC/MS, GC/FPD, LC/MS/DAD.

Remark:

1. The chemical analysis of 155 SVHC is performed by means of currently available analytical techniques against the list published by ECHA on 2014 June 16.

   Refer to: http://echa.europa.eu/web/guest/candidate-list-table
2. In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 2 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 is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance 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.
4. 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 Result(s)

Substance Name	Concentration of Article (%)	RL (%)	Classification
Anthracene (CAS No.: 120-12-7)	n.d.	0.05	PBT
4,4' - Diaminodiphenylmethane (CAS No.: 101-77-9)	n.d.	0.05	CC 1B
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	n.d.	0.05	TRC 1B
BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	n.d.	0.05	TRC 1B
Bis (2-ethyl(hexyl)phthalate) (DEHP) (CAS No.: 117-81-7)	n.d.	0.05	TRC 1B
5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene) (CAS No.: 81-15-2)	n.d.	0.05	vPvB
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	n.d.	0.05	PBT
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	n.d.	0.05	PBT
Bis(tributyltin)oxide (TBTO)*** (CAS No.: 56-35-9)	n.d.	-	PBT

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Substance Name	Concentration of Article (%)	RL (%)	Classification
Cobalt dichloride (CAS No.: 7646-79-9)	n.d.	0.005	CC 1B; TRC 1B
Diarsenic pentaoxide*** (CAS No.: 1303-28-2)	n.d.	-	CC 1A
Diarsenic trioxide*** (CAS No.: 1327-53-3)	n.d.	-	CC 1A
Triethyl arsenate*** (CAS No.: 15606-95-8)	n.d.	-	CC 1A
Lead hydrogen arsenate*** (CAS No.: 7784-40-9) (※1)	n.d.	-	CC 1A; TRC 1A
Sodium chromate*** (CAS No.: 7775-11-3)	n.d.	-	CC 1B; MC 1B; TRC 1B
Ammonium dichromate*** (CAS No.: 7789-09-5)	n.d.	-	CC 1B; MC 1B; TRC 1B
Potassium dichromate*** (CAS No.: 7778-50-9)	n.d.	-	CC 1B; MC 1B; TRC 1B
Potassium chromate*** (CAS No.: 7789-00-6)	n.d.	-	CC 1B; MC 1B
Sodium dichromate*** (CAS No.: 10588-01-9, 7789-12-0(*))	n.d.	-	CC 1B; MC 1B; TRC 1B
Chromium trioxide*** (CAS No.: 1333-82-0)	n.d.	-	CC 1A; MC 1B
Acids generated from chromium trioxide and their oligomers: Chromic acid*** (CAS No.: 7738-94-5)	n.d.	-	CC 1B
Acids generated from chromium trioxide and their oligomers: Dichromic acid*** (CAS No.: 13530-68-2)	n.d.	-	CC 1B
Acids generated from chromium trioxide and their oligomers: Oligomers of chromic acid and dichromic acid (＊1)	n.d.	-	CC 1B
Strontium chromate*** (CAS No.: 7789-06-2)	n.d.	-	CC 1B
Anthracene oil (CAS No.: 90640-80-5) (**)	n.d.	0.05	PBT; vPvB; CC 1B
Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**)	n.d.	0.05	PBT; vPvB; CC 1B; MC 1B
Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**)	n.d.	0.05	PBT; vPvB; CC 1B; MC 1B
Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**)	n.d.	0.05	PBT; vPvB; CC 1B; MC 1B
Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**)	n.d.	0.05	PBT; vPvB; CC 1B; MC 1B
Pitch, coal tar, high-temp. (CAS No.: 65996-93-2) (**)	n.d.	0.05	PBT; vPvB; CC 1B
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	n.d.	0.05	TRC 1B
2,4-Dinitrotoluene (CAS No.: 121-14-2)	n.d.	0.05	CC 1B
Tris(2-chloroethyl) phosphate (TCEP) (CAS No.: 115-96-8)	n.d.	0.05	TRC 1B
Lead chromate (CAS No.: 7758-97-6)	n.d.	0.01	CC 1B; TRC 1A

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Substance Name	Concentration of Article (%)	RL (%)	Classification
Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (CAS No.: 12656-85-8)	n.d.	0.01	CC 1B; TRC 1A
Lead sulfochromate yellow (C.I. Pigment Yellow 34) (CAS No.: 1344-37-2)	n.d.	0.01	CC 1B; TRC 1A
Acrylamide (CAS No.: 79-06-1)	n.d.	0.05	CC 1B; MC 1B
Boric acid*** (CAS No.: 10043-35-3; 11113-50-1)	n.d.	-	TRC 1B
Disodium tetraborate, anhydrous*** (CAS No.: 1303-96-4, 1330-43-4, 12179-04-3)	n.d.	-	TRC 1B
Tetraboron disodium heptaoxide, hydrate (CAS No.: 12267-73-1) (＊2)	n.d.	-	TRC 1B
Trichloroethylene (CAS No.: 79-01-6)	n.d.	0.05	CC 1B
Cobalt(II) sulphate*** (CAS No.: 10124-43-3)	n.d.	-	CC 1B; TRC 1B
Cobalt(II) dinitrate*** (CAS No.: 10141-05-6)	n.d.	-	CC 1B; TRC 1B
Cobalt(II) carbonate*** (CAS No.: 513-79-1)	n.d.	-	CC 1B; TRC 1B
Cobalt(II) diacetate*** (CAS No.: 71-48-7)	n.d.	-	CC 1B; TRC 1B
2-Methoxyethanol (CAS No.: 109-86-4)	n.d.	0.05	TRC 1B
2-Ethoxyethanol (CAS No.: 110-80-5)	n.d.	0.05	TRC 1B
2-ethoxyethyl acetate (CAS No.: 111-15-9)	n.d.	0.05	TRC 1B
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) (CAS No.: 68515-42-4)	n.d.	0.05	TRC 1B
Hydrazine (CAS No.: 7803-57-8; 302-01-2)	n.d.	0.05	CC 1B
1-methyl-2-pyrrolidone (CAS No.: 872-50-4)	n.d.	0.05	TRC 1B
1,2,3-trichloropropane (CAS No.: 96-18-4)	n.d.	0.05	CC 1B; TRC 1B
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6)	n.d.	0.05	TRC 1B
Arsenic acid*** (CAS No.: 7778-39-4)	n.d.	-	CC 1A
Calcium arsenate*** (CAS No.: 7778-44-1)	n.d.	-	CC 1A
Trilead diarsenate*** (CAS No.: 3687-31-8) (※1)	n.d.	-	CC 1A; TRC 1A
Lead diazide, Lead azide*** (CAS No.: 13424-46-9)	n.d.	-	TRC 1A
Lead styphnate*** (CAS No.: 15245-44-0)	n.d.	-	TRC 1A
Lead dipicrate*** (CAS No.: 6477-64-1)	n.d.	-	TRC 1A

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Substance Name	Concentration of Article (%)	RL (%)	Classification
Dichromium tris (chromate)*** (CAS No.: 24613-89-6)	n.d.	-	CC 1B
Potassium hydroxyoctaoxodizincatedi- chromate*** (CAS No.: 11103-86-9)	n.d.	-	CC 1A
Pentazinc chromate octahydroxide*** (CAS No.: 49663-84-5)	n.d.	-	CC 1A
Formaldehyde, oligomeric reaction products with aniline (technical MDA) (CAS No.: 25214-70-4)	n.d.	0.05	CC 1B
Bis(2-methoxyethyl) phthalate (CAS No.: 117-82-8)	n.d.	0.05	TRC 1B
2-Methoxyaniline; o-Anisidine (CAS No.: 90-04-0)	n.d.	0.05	CC 1B
4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol) (CAS No.: 140-66-9)	n.d.	0.05	EQC
1,2-Dichloroethane (CAS No.: 107-06-2)	n.d.	0.05	CC 1B
Bis(2-methoxyethyl) ether (CAS No.: 111-96-6)	n.d.	0.05	TRC 1B
N,N-dimethylacetamide (DMAC) (CAS No.: 127-19-5)	n.d.	0.05	TRC 1B
2,2'-dichloro- 4,4'-methylenedianiline (MOCA) (CAS No.: 101-14-4)	n.d.	0.05	CC 1B
Phenolphthalein (CAS No.: 77-09-8)	n.d.	0.05	CC 1B
Aluminosilicate, Refractory Ceramic Fibres【oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges】	n.d.	0.05	CC 1B
Zirconia Aluminosilicate, Refractory Ceramic Fibres【oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges】	n.d.	0.05	CC 1B
1,2-bis (2-methoxyethoxy) ethane (TEGDME; triglyme) (CAS No.: 112-49-2)	n.d.	0.05	TRC 1B
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) (CAS No.: 110-71-4)	n.d.	0.05	TRC 1B
Formamide (CAS No.: 75-12-7)	n.d.	0.05	TRC 1B
Lead(II) bis(methanesulfonate)*** (CAS No.: 17570-76-2)	n.d.	-	TRC 1B
TGIC (1,3,5-tris(oxiranylmethyl)- 1,3,5-triazine-2,4,6 (1H,3H,5H)-trione) (CAS No.: 2451-62-9)	n.d.	0.05	MC 1B
β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]- 1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) (CAS No.: 59653-74-6) (※3)	n.d.	0.05	MC 1B

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Substance Name	Concentration of Article (%)	RL (%)	Classification
4,4'-bis (dimethylamino) benzophenone (Michler's ketone) (CAS No.: 90-94-8)	n.d.	0.05	CC 1B
N,N,N',N'-tetramethyl- 4,4'-methylenedianiline (Michler's base) (CAS No.: 101-61-1)	n.d.	0.05	CC 1B
[4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3) (CAS No.: 548-62-9) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	CC 1B
[4-[[4-anilino-1-naphthyl] [4-(dimethylamino) phenyl] methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) (CAS No.: 2580-56-5) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	CC 1B
α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) (CAS No.: 6786-83-0) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	CC 1B
Diboron trioxide*** (CAS No.: 1303-86-2)	n.d.	-	TRC 1B
4,4'-bis (dimethylamino)-4''-(methylamino) trityl alcohol (CAS No.: 561-41-1) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	CC 1B
Bis(pentabromophenyl) ether (DecaBDE) (CAS No.: 1163-19-5)	n.d.	0.05	PBT
Pentacosafluorotridecanoic acid (CAS No.: 72629-94-8)	n.d.	0.05	PBT
Tricosafluorododecanoic acid (CAS No.: 307-55-1)	n.d.	0.05	PBT
Henicosafluoroundecanoic acid (CAS No.: 2058-94-8)	n.d.	0.05	PBT
Heptacosafluorotetradecanoic acid (CAS No.: 376-06-7)	n.d.	0.05	PBT
4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated- covering well-defined substances and UVCB substances, polymers and homologues	n.d.	0.05	EQC
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	n.d.	0.05	EQC
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (CAS No.: 123-77-3)	n.d.	0.05	EQC
Cyclohexane-1,2-dicarboxylic anhydride (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2- dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA) (CAS No.: 85-42-7, 13149-00-3, 14166-21-3)	n.d.	0.05	EQC

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Substance Name	Concentration of Article (%)	RL (%)	Classification
Hexahydromethylphathalic anhydride (CAS No.: 25550-51-0) Hexahydro-4-methylphathalic anhydride (CAS No.: 19438-60-9) Hexahydro-1-methylphathalic anhydride (CAS No.: 48122-14-1) Hexahydro-3-methylphathalic anhydride (CAS No.: 57110-29-9)	n.d.	0.05	EQC
Methoxy acetic acid (CAS No.: 625-45-6)	n.d.	0.05	TRC 1B
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No.: 84777-06-0)	n.d.	0.05	TRC 1B
Diisopentylphthalate (CAS No.: 605-50-5)	n.d.	0.05	TRC 1B
N-pentyl-isopentylphtalate (CAS No.: 776297-69-9)	n.d.	0.05	TRC 1B
1,2-Diethoxyethane (CAS No.: 629-14-1)	n.d.	0.05	TRC 1B
N,N-dimethylformamide; dimethyl formamide (CAS No.: 68-12-2)	n.d.	0.05	TRC 1B
Dibutyltin dichloride (DBTC) (CAS No.: 683-18-1)	n.d.	0.05	TRC 1B
Acetic acid, lead salt, basic*** (CAS No.: 51404-69-4)	n.d.	-	TRC 1A
Trilead bis(carbonate) dihydroxide (basic lead carbonate)*** (CAS No.: 1319-46-6)	n.d.	-	TRC 1A
Lead oxide sulfate*** (CAS No.: 12036-76-9)	n.d.	-	TRC 1A
[Phthalato(2-)] dioxotrilead*** (CAS No.: 69011-06-9)	n.d.	-	TRC 1A
Dioxobis(stearato) trilead*** (CAS No.: 12578-12-0)	n.d.	-	TRC 1A
Fatty acids, C16-18, lead salts*** (CAS No.: 91031-62-8)	n.d.	-	TRC 1A
Lead cyanamidate*** (CAS No.: 20837-86-9)	n.d.	-	TRC 1A
Lead dinitrate*** (CAS No.: 10099-74-8)	n.d.	-	TRC 1A
Lead oxide (lead monoxide)*** (CAS No.: 1317-36-8)	n.d.	-	TRC 1A
Lead tetroxide (orange lead)*** (CAS No.: 1314-41-6)	n.d.	-	TRC 1A
Pentalead tetraoxide sulphate*** (CAS No.: 12065-90-6)	n.d.	-	TRC 1A
Silicic acid, lead salt*** (CAS No.: 11120-22-2)	n.d.	-	TRC 1A
Sulfurous acid, lead salt, dibasic*** (CAS No.: 62229-08-7)	n.d.	-	TRC 1A
Tetraethyllead*** (CAS No.: 78-00-2)	n.d.	-	TRC 1A
Tetralead trioxide sulphate*** (CAS No.: 12202-17-4)	n.d.	-	TRC 1A
Lead bis(tetrafluoroborate)*** (CAS No.: 13814-96-5)	n.d.	-	TRC 1A
Lead titanium trioxide*** (CAS No.: 12060-00-3)	n.d.	-	TRC 1A
Lead Titanium Zirconium Oxide*** (CAS No.: 12626-81-2)	n.d.	-	TRC 1A
Pyrochlore, antimony lead yellow*** (CAS No.: 8012-00-8)	n.d.	-	TRC 1A

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Test Report (SVHC)

FORMOSA CHEMICALS & FIBRE CORPORATION
201, TUNG HWA N. ROAD, TAIPEI, TAIWAN, R. O. C.

Substance Name	Concentration of Article (%)	RL (%)	Classification
Trilead dioxide phosphonate*** (CAS No.: 12141-20-7)	n.d.	-	TRC 1A
Silicic acid, barium salt, lead-doped (※4) (CAS No.: 68784-75-8)	n.d.	0.05	TRC 1A
Furan (CAS No.: 110-00-9)	n.d.	0.05	CC 1B
Propylene oxide; 1,2-epoxypropane; methyloxirane (CAS No.: 75-56-9)	n.d.	0.05	CC 1B; MC 1B
Diethyl sulphate (CAS No.: 64-67-5)	n.d.	0.05	CC 1B; MC 1B
Dimethyl sulphate (CAS No.: 77-78-1)	n.d.	0.05	CC 1B
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine (CAS No.: 143860-04-2)	n.d.	0.05	TRC 1B
Dinoseb (CAS No.: 88-85-7)	n.d.	0.05	TRC 1B
4,4'-methylenedi-o-toluidine (CAS No.: 838-88-0)	n.d.	0.05	CC 1B
4,4'-oxydianiline and its salts (CAS No.: 101-80-4)	n.d.	0.05	CC 1B; MC 1B
4-Aminoazobenzene; 4-Phenylazoaniline (CAS No.: 60-09-3)	n.d.	0.05	CC 1B
4-methyl-m-phenylenediamine (2,4-toluenediamine) (CAS No.: 95-80-7)	n.d.	0.05	CC 1B
6-methoxy-m-toluidine (p-cresidine) (CAS No.: 120-71-8)	n.d.	0.05	CC 1B
Biphenyl-4-ylamine (CAS No.: 92-67-1)	n.d.	0.05	CC 1A
o-aminoazotoluene (CAS No.: 97-56-3)	n.d.	0.05	CC 1B
o-Toluidine; 2-Aminotoluene (CAS No.: 95-53-4)	n.d.	0.05	CC 1B
N-methylacetamide (CAS No.: 79-16-3)	n.d.	0.05	TRC 1B
1-bromopropane (CAS No.: 106-94-5)	n.d.	0.05	TRC 1B
Pentadecafluorooctanoic acid (PFOA) (CAS No.: 335-67-1)	n.d.	0.05	TRC 1B & PBT
Ammoniumpentadecafluorooctanoate (APFO)*** (CAS No.: 3825-26-1)	n.d.	-	TRC 1B & PBT
Cadmium (Cd) (CAS No.: 7440-43-9)	n.d.	0.005	CC 1B & EQC
Cadmium oxide*** (CAS No.: 1306-19-0)	n.d.	-	CC 1B & EQC
DPP (Di-pentyl phthalate) (CAS No.: 131-18-0)	n.d.	0.05	TRC 1B
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]	n.d.	0.05	EQC
Dihexyl phthalate (CAS No.: 84-75-3)	n.d.	0.05	TRC 1B
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) (CAS No.: 573-58-0)	n.d.	0.05	CC 1B

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FORMOSA CHEMICALS & FIBRE CORPORATION
201, TUNG HWA N. ROAD, TAIPEI, TAIWAN, R. O. C.

Substance Name	Concentration of Article (%)	RL (%)	Classification
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) (CAS No.: 1937-37-7)	n.d.	0.05	CC 1B
Imidazolidine-2-thione; 2-imidazoline-2-thiol (CAS No.: 96-45-7)	n.d.	0.05	TRC 1B
Trixylyl phosphate (CAS No.: 25155-23-1)	n.d.	0.05	TRC 1B
Cadmium sulphide*** (CAS No.: 1306-23-6)	n.d.	-	CC 1B & EQC
Lead di(acetate)*** (CAS No.: 301-04-2)	n.d.	-	TRC 1A
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (CAS No.: 68515-50-4)	n.d.	0.05	TRC 1B
Cadmium chloride*** (CAS No.: 10108-64-2)	n.d.	-	CC 1B; MC 1B; TRC 1B; EQC
Sodium perborate; perboric acid, sodium salt***	n.d.	-	TRC 1B
Sodium peroxometaborate*** (CAS No.: 7632-04-4)	n.d.	-	TRC 1B

Note：

1. mg/kg = ppm; 0.1wt% = 1000ppm
2. n.d.= not detected = below Reporting Limit
3. RL = Reporting Limit
4. " - " = Not Regulated
5. (*): conc. of Sodium dichromate dihydrate (CAS No.: 7789-12-0) = conc. of sodium dichromate × 1.1374
6. (**): The concentrations of above-mentioned mixtures are evaluated per the gained composition rate between the selected marks and the mixtures.
7. (＊1): Oligomers of chromic acid and dichromic acid : since the oligomers are made of the unknown amount of chromic acid or dichromic acid that results in no fixed molecular weight, therefore the monomer of chromic acid or dichromic acid is relevant and considered.
8. (＊2): Tetraboron disodium heptaoxide, hydrate: Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation (Ref no.: INC 000000032519).
9. F Parameter Conversion Table：Please refer to http://twap.sgs.com/sgsrsts/chn/download-REACH_tw.asp
10. Classification：Please refer to http://twap.sgs.com/sgsrsts/chn/download-REACH_tw.asp

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FORMOSA CHEMICALS & FIBRE CORPORATION
201, TUNG HWA N. ROAD, TAIPEI, TAIWAN, R. O. C.

11. ***: The substance was calculated by the test results of Tributyl Tin, PFOA or element (Ex. Arsenic, Lead, Cr(VI), Boron, Cobalt, Barium, Cadmium respectively).

The test result is given as:

Substance Name	Concentration of Article (%)	RL (%)
Tributyl Tin (TBT)	n.d.	0.05
Arsenic (As) (※2)	n.d.	0.005
Lead (Pb)	n.d.	0.005
Hexavalent Chromium Cr(VI)	n.d.	0.005
Boron (B) (※2)	n.d.	0.005
Cobalt (Co)	n.d.	0.005

12. (※1): Regarding the compound containing arsenic and lead, lead and arsenic are tested and respectively used for the calculation of the independent concentration of the compound containing arsenic and lead. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.
13. (※2): The extracted soluble Boron / Arsenic are detected by ICP-AES.
14. (※3): TGIC is a mixture and also contains β-TGIC. According to the ECHA's technical dossier the ratio of β-TGIC to TGIC is around 1 to 10. Therefore β-TGIC is issued based on the above-mentioned ratio.
15. (※4): Only if both qualitative results of lead and silicon are positive, the test result of the compound will be calculated based on the concentration of barium.

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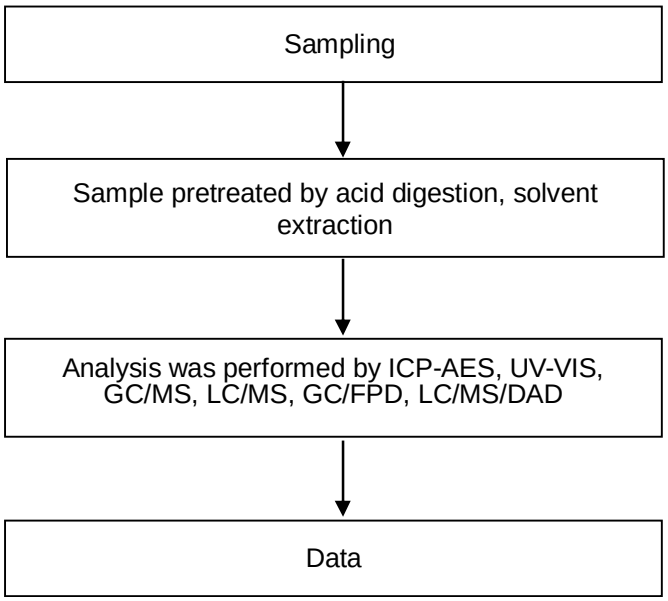
201, TUNG HWA N. ROAD, TAIPEI, TAIWAN, R. O. C.

Analytical flow chart of SVHC

- Name of the person who made measurement: Roman Wong / Stacy Chou / Climbgreat Yang
- Name of the person in charge of measurement: Troy Chang



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Test Report (SVHC)

FORMOSA CHEMICALS & FIBRE CORPORATION
201, TUNG HWA N. ROAD, TAIPEI, TAIWAN, R. O. C.

*** The tested sample / part is marked by an arrow if it's shown on the photo. ***

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** End of Report **

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