

# Test Report (SVHC)

No. : CC/2012/20001 Date : 2012/02/10 Page : 1 of 17

DECORATIVE PLASTIC COMPANY LIMITED

514/11 SOI RAMKHAMHAENG 39 (THEPLEELA 1) PRACHA-UTIT ROAD, WANGTHONGLANG,  
BANGKOK 10310 THAILAND

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

Sample Description : PVC CLEAR FILM  
Buyer/Order No. : NF1BD1117-1~7  
Sample Receiving Date : 2012/02/01  
Testing Period : 2012/02/01 TO 2012/02/10

Test Requested : Seventy-three(73) Substances of Very High Concern (SVHC) screening. SVHC candidate list based on the publication by European Chemicals Agency (ECHA) on 2011 December 19, 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).

  
Chenyu Kung / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory – Taipei

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DECORATIVE PLASTIC COMPANY LIMITED

514/11 SOI RAMKHAMHAENG 39 (THEPLEELA 1) PRACHA-UTIT ROAD, WANGTHONGLANG,  
BANGKOK 10310 THAILAND



**Test Sample :** TRANSPARENT PLASTIC FILM

**Test Method :** SGS In-House method-RSTS-EE-SVHC-003, RSTS-EE-SVHC-004, RSTS-EE-SVHC-006.  
Analyzed by ICP-AES, UV-VIS, GC/MS, LC/MS and GC/FPD.

## Remark:

- The chemical analysis of 73 SVHC is performed by means of currently available analytical techniques against the list published by ECHA on 2011 December 19. This list is under evaluation by ECHA and may subject to change in the future.  
Refer to: [http://echa.europa.eu/chem\\_data/authorisation\\_process/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp)
- 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).
- 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.
- 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<br>【Appendix A】 |
|---|------------------------------|--------|--------------------------------|
| Anthracene (CAS No.: 120-12-7)  | n.d.                         | 0.005  | PBT                            |
| 4,4' - Diaminodiphenylmethane (CAS No.: 101-77-9)   | n.d.                         | 0.005  | CC2                            |
| DBP (Dibutyl phthalate) (CAS No.: 84-74-2)  | n.d.                         | 0.005  | TRC2                           |
| BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)   | n.d.                         | 0.005  | TRC2                           |
| Bis (2-ethyl(hexyl)phthalate) (DEHP) (CAS No.: 117-81-7)  | 0.0262                       | 0.005  | TRC2                           |
| 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene) (CAS No.: 81-15-2)  | n.d.                         | 0.005  | 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.                         | 0.005  | PBT                            |
| Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)   | n.d.                         | 0.01   | PBT                            |
| Bis(tributyltin)oxide*** (CAS No.: 56-35-9)   | n.d.                         | -      | PBT                            |

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514/11 SOI RAMKHAMHAENG 39 (THEPLEELA 1) PRACHA-UTIT ROAD, WANGTHONGLANG,  
BANGKOK 10310 THAILAND



| Substance Name  | Concentration of Article (%) | RL (%) | Classification [Appendix A] |
|---|------------------------------|--------|-----------------------------|
| Cobalt dichloride (CAS No.: 7646-79-9)  | n.d.                         | 0.05   | CC2; TRC2                   |
| Diarsenic pentaoxide*** (CAS No.: 1303-28-2)  | n.d.                         | -      | CC1                         |
| Diarsenic trioxide*** (CAS No.: 1327-53-3)  | n.d.                         | -      | CC1                         |
| Triethyl arsenate*** (CAS No.: 15606-95-8)  | n.d.                         | -      | CC1                         |
| Lead hydrogen arsenate*** (CAS No.: 7784-40-9) (※1)   | n.d.                         | -      | CC1; TRC1                   |
| Sodium chromate*** (CAS No.: 7775-11-3)   | n.d.                         | -      | CC2; MC2; TRC2              |
| Ammonium dichromate*** (CAS No.: 7789-09-5)   | n.d.                         | -      | CC2; MC2; TRC2              |
| Potassium dichromate*** (CAS No.: 7778-50-9)  | n.d.                         | -      | CC2; MC2; TRC2              |
| Potassium chromate*** (CAS No.: 7789-00-6)  | n.d.                         | -      | CC2; MC2                    |
| Sodium dichromate*** (CAS No.: 10588-01-9, 7789-12-0(**))   | n.d.                         | -      | CC2; MC2; TRC2              |
| Chromium trioxide*** (CAS No.: 1333-82-0)   | n.d.                         | -      | CC1; MC2                    |
| Acids generated from chromium trioxide and their oligomers: Chromic acid*** (CAS No.: 7738-94-5)  | n.d.                         | -      | CC2                         |
| Acids generated from chromium trioxide and their oligomers: Dichromic acid*** (CAS No.: 13530-68-2)   | n.d.                         | -      | CC2                         |
| Acids generated from chromium trioxide and their oligomers: Oligomers of chromic acid and dichromic acid (※1)   | n.d.                         | -      | CC2                         |
| Strontium chromate*** (CAS No.: 7789-06-2)  | n.d.                         | -      | CC2                         |
| Anthracene oil (CAS No.: 90640-80-5) (**)   | n.d.                         | 0.05   | PBT; vPvB; CC2              |
| Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**)  | n.d.                         | 0.05   | PBT; vPvB; CC2; MC2         |
| Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**)  | n.d.                         | 0.05   | PBT; vPvB; CC2; MC2         |
| Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**)   | n.d.                         | 0.05   | PBT; vPvB; CC2; MC2         |
| Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**)   | n.d.                         | 0.05   | PBT; vPvB; CC2; MC2         |
| Pitch, coal tar, high-temp. (CAS No.: 65996-93-2) (**)  | n.d.                         | 0.05   | PBT; vPvB; CC2              |
| Aluminosilicate, Refractory Ceramic Fibres<br>Al <sub>2</sub> O <sub>3</sub> : 43.5 - 47 % w/w, and SiO <sub>2</sub> : 49.5 - 53.5 % w/w, or Al <sub>2</sub> O <sub>3</sub> : 45.5 - 50.5 % w/w, and SiO <sub>2</sub> : 48.5 - 54 % w/w | n.d.                         | 0.05   | CC2                         |
| Zirconia Aluminosilicate, Refractory Ceramic Fibres<br>Al <sub>2</sub> O <sub>3</sub> : 35- 36 % w/w, and SiO <sub>2</sub> : 47.5 - 50 % w/w, and ZrO <sub>2</sub> : 15- 17 % w/w   | n.d.                         | 0.05   | CC2                         |
| DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)   | n.d.                         | 0.005  | TRC2                        |
| 2,4-Dinitrotoluene (CAS No.: 121-14-2)  | n.d.                         | 0.005  | CC2                         |

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BANGKOK 10310 THAILAND



| Substance Name  | Concentration of Article (%) | RL (%) | Classification [Appendix A] |
|---|------------------------------|--------|-----------------------------|
| Tris(2-chloroethyl) phosphate (TCEP) (CAS No.: 115-96-8)  | n.d.                         | 0.005  | TRC2                        |
| Lead chromate (CAS No.: 7758-97-6)  | n.d.                         | 0.01   | CC2; TRC1                   |
| Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (CAS No.: 12656-85-8)                 | n.d.                         | 0.01   | CC2; TRC1                   |
| Lead sulfochromate yellow (C.I. Pigment Yellow 34) (CAS No.: 1344-37-2)                           | n.d.                         | 0.01   | CC2; TRC1                   |
| Acrylamide (CAS No.: 79-06-1)   | n.d.                         | 0.005  | CC2; MC2                    |
| Boric acid*** (CAS No.: 10043-35-3; 11113-50-1)   | n.d.                         | -      | TRC2                        |
| Disodium tetraborate, anhydrous*** (CAS No.: 1303-96-4, 1330-43-4, 12179-04-3)                    | n.d.                         | -      | TRC2                        |
| Tetraboron disodium heptaoxide, hydrate (CAS No.: 12267-73-1) (*2)                                | n.d.                         | -      | TRC2                        |
| Trichloroethylene (CAS No.: 79-01-6)  | n.d.                         | 0.005  | CC2                         |
| Cobalt(II) sulphate*** (CAS No.: 10124-43-3)  | n.d.                         | -      | CC2; TRC2                   |
| Cobalt(II) dinitrate*** (CAS No.: 10141-05-6)   | n.d.                         | -      | CC2; TRC2                   |
| Cobalt(II) carbonate*** (CAS No.: 513-79-1)   | n.d.                         | -      | CC2; TRC2                   |
| Cobalt(II) diacetate*** (CAS No.: 71-48-7)  | n.d.                         | -      | CC2; TRC2                   |
| 2-Methoxyethanol (CAS No.: 109-86-4)  | n.d.                         | 0.005  | TRC2                        |
| 2-Ethoxyethanol (CAS No.: 110-80-5)   | n.d.                         | 0.005  | TRC2                        |
| 2-ethoxyethyl acetate (CAS No.: 111-15-9)   | n.d.                         | 0.05   | TRC2                        |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (CAS No.: 68515-42-4)     | n.d.                         | 0.05   | TRC2                        |
| Hydrazine (CAS No.: 7803-57-8; 302-01-2)  | n.d.                         | 0.05   | CC2                         |
| 1-methyl-2-pyrrolidone (CAS No.: 872-50-4)  | n.d.                         | 0.05   | TRC2                        |
| 1,2,3-trichloropropane (CAS No.: 96-18-4)   | n.d.                         | 0.05   | CC2; TRC2                   |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6) | n.d.                         | 0.05   | TRC2                        |
| Arsenic acid*** (CAS No.: 7778-39-4)  | n.d.                         | -      | CC1                         |
| Calcium arsenate*** (CAS No.: 7778-44-1)  | n.d.                         | -      | CC1                         |
| Trilead diarsenate*** (CAS No.: 3687-31-8) (*1)   | n.d.                         | -      | CC1; TRC1                   |
| Lead diazide, Lead azide*** (CAS No.: 13424-46-9)   | n.d.                         | -      | TRC1                        |
| Lead styphnate*** (CAS No.: 15245-44-0)   | n.d.                         | -      | TRC1                        |
| Lead dipicrate*** (CAS No.: 6477-64-1)  | n.d.                         | -      | TRC1                        |
| Dichromium tris (chromate)*** (CAS No.: 24613-89-6)   | n.d.                         | -      | CC2                         |

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BANGKOK 10310 THAILAND



| Substance Name   | Concentration of Article (%) | RL (%) | Classification<br>【Appendix A】 |
|--|------------------------------|--------|--------------------------------|
| Potassium hydroxyoctaoxodizincatedi- chromate*** (CAS No.: 11103-86-9)   | n.d.                         | -      | CC1                            |
| Pentazinc chromate octahydroxide*** (CAS No.: 49663-84-5)  | n.d.                         | -      | CC1                            |
| Formaldehyde, oligomeric reaction products with aniline (technical MDA) (CAS No.: 25214-70-4)  | n.d.                         | 0.05   | CC2                            |
| Bis(2-methoxyethyl) phthalate (CAS No.: 117-82-8)  | n.d.                         | 0.05   | TRC2                           |
| 2-Methoxyaniline; o-Anisidine (CAS No.: 90-04-0)   | n.d.                         | 0.05   | CC2                            |
| 4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol) (CAS No.: 140-66-9)  | n.d.                         | 0.05   | Equivalent concern             |
| 1,2-Dichloroethane (CAS No.: 107-06-2)   | n.d.                         | 0.05   | CC2                            |
| Bis(2-methoxyethyl) ether (CAS No.: 111-96-6)  | n.d.                         | 0.05   | TRC2                           |
| N,N-dimethylacetamide (DMAC) (CAS No.: 127-19-5)   | n.d.                         | 0.05   | TRC2                           |
| 2,2'-dichloro- 4,4'-methylenedianiline (MOCA) (CAS No.: 101-14-4)  | n.d.                         | 0.05   | CC2                            |
| Phenolphthalein (CAS No.: 77-09-8)   | n.d.                         | 0.05   | CC2                            |
| Aluminosilicate, Refractory Ceramic Fibres<br>oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges                     | n.d.                         | 0.05   | CC2                            |
| Zirconia Aluminosilicate, Refractory Ceramic Fibres<br>oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges | n.d.                         | 0.05   | CC2                            |

## Note :

1. mg/kg = ppm; 0.1wt% = 1000ppm
2. n.d.= not detected = below Reporting Limit
3. RL = Reporting Limit
4. Definition of classification is listed in Appendix A of this report in accordance with 67/548/EEC and Regulation (EC) No 1907/2006.
5. Please refer to Appendix C to find the concentration and the weight of each tested unit.
6. " - " = Not Regulated
7. (\*): conc. of Sodium dichromate dihydrate (CAS No.: 7789-12-0) = conc. of sodium dichromate  $\times$  1.1374
8. (\*\*): The concentrations of above-mentioned mixtures are evaluated per the gained composition rate between the selected marks and the mixtures.
9. (\* 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.

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10. (\*2): Tetraboron disodium heptaoxide, hydrate: Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation (Ref no.: INC 000000032519).
11. (※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.
12. \*\*\*: The substance was calculated by the test results of Tributyl Tin or element (Ex. Arsenic, Lead, Cr(VI), Boron, Cobalt respectively).

$$AX = A \times F$$

| AX                                 | A                  | F      |
|------------------------------------|--------------------|--------|
| Diarsenic pentaoxide               | Arsenic            | 1.5339 |
| Diarsenic trioxide                 |                    | 1.3203 |
| Triethyl arsenate                  |                    | 3.0179 |
| Lead hydrogen arsenate             |                    | 4.6332 |
| Lead dipicrate                     | Lead               | 1.6753 |
| Lead styphnate                     |                    | 3.2017 |
| Lead diazide, Lead azide           |                    | 2.1732 |
| Trilead diarsenate                 |                    | 1.4056 |
| Arsenic acid                       | Arsenic            | 1.447  |
| Calcium arsenate                   |                    | 6.0025 |
| Bis(tributyltin)oxide              | Tributyl Tin (TBT) | 1.8946 |
| Boric acid                         | Boron              | 2.6566 |
| Disodium tetraborate, anhydrous    |                    | 1.0276 |
| Disodium tetraborate, pentahydrate |                    | 5.7195 |
| Disodium tetraborate, decahydrate  |                    | 4.6531 |
| Cobalt(II) sulphate                | Cobalt             | 6.7361 |
| Cobalt(II) dinitrate               |                    | 8.8191 |
| Cobalt(II) carbonate               |                    | 2.63   |
| Cobalt(II) diacetate               |                    | 3.1042 |
|                                    |                    | 2.0183 |
|                                    |                    | 3.0038 |

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BANGKOK 10310 THAILAND



$$AX = A \times F$$

| AX   | A                          | F       |
|--|----------------------------|---------|
| Sodium dichromate                            | Hexavalent Chromium Cr(VI) | 2.5192  |
| Sodium chromate                              |                            | 3.1151  |
| Ammonium dichromate                          |                            | 2.4239  |
| Potassium dichromate                         |                            | 2.8289  |
| Potassium chromate                           |                            | 3.7347  |
| Chromium trioxide                            |                            | 1.9231  |
| Chromic acid                                 |                            | 2.2696  |
| Dichromic acid                               |                            | 2.0963  |
| Strontium chromate                           |                            | 3.9159  |
| Pentazinc chromate octahydroxide             |                            | 11.1345 |
| Potassium hydroxyoctaoxodizincatedi-chromate |                            | 4.0277  |
| Dichromium tris (chromate)                   |                            | 2.8975  |

The test result is given as:

| Substance Name             | Concentration of Article (%) | RL (%) |
|----------------------------|------------------------------|--------|
| Tributyl Tin (TBT)         | n.d.                         | 0.005  |
| 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  |

13. (※2): The extracted soluble Boron / Arsenic are detected by ICP-AES.

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## Test Report (SVHC)

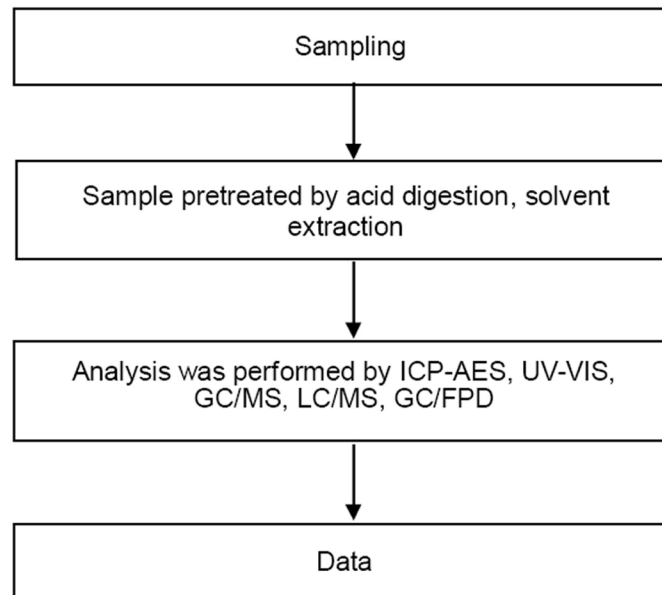
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BANGKOK 10310 THAILAND



### Analytical flow chart of SVHC

- 1) Name of the person who made measurement: Roman Wong / Stacy Chou /  
Climbgreat Yang
- 2) Name of the person in charge of measurement: Chenyu Kung



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

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## 【Appendix A】

| Classification                          | Definition under 67/548/EEC and Regulation (EC) No 1907/2006  |
|---|---|
| CC1 (Carcinogen Category 1)             | Substances known to be carcinogenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and the development of cancer.   |
| CC2 (Carcinogen Category 2)             | Substances which should be regarded as if they are carcinogenic to man. There is sufficient evidence to provide a strong presumption that human exposure to a substance may result in the development of cancer.<br>Generally on the basis of:<br>- appropriate long-term animal studies<br>- other relevant information.   |
| MC1 (Mutagen Category 1)                | Substances known to be mutagenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and heritable genetic damage.   |
| MC2 (Mutagen Category 2)                | Substances which should be regarded as if they are mutagenic to man. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in the development of heritable genetic damage, generally on the basis of:<br>- appropriate animal studies,<br>- other relevant information.  |
| TRC1 (Toxic to Reproduction Category 1) | Substances known to impair fertility in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and impaired fertility.<br>Substances known to cause developmental toxicity in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and subsequent developmental toxic effects in the progeny.   |
| TRC2 (Toxic to Reproduction Category 2) | Substances which should be regarded as if they impair fertility in humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in impaired fertility on the basis of:<br>- clear evidence in animal studies of impaired fertility in the absence of toxic effects, or, evidence of impaired fertility occurring at around the same dose levels as other toxic effects but which is not a secondary nonspecific consequence of the other toxic effects,<br>- other relevant information.<br>Substances which should be regarded as if they cause developmental toxicity to humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in developmental toxicity, generally on the basis of:<br>- clear results in appropriate animal studies where effects have been observed in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of the other toxic effects,<br>- other relevant information. |
| PBT & vPvB                              | Substances which are persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) pose a particular challenge to the chemicals safety management. For these substances a "safe" concentration in the environment cannot be established with sufficient reliability.   |

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## 【Appendix B】

| SVHC SURVEY FORM  |                                    |             |   |
|---|------------------------------------|-------------|---|
| Company Name  | DECORATIVE PLASTIC COMPANY LIMITED |             |   |
| Product name  | PVC CLEAR FILM                     |             |   |
| Product/Sampling weight   | 155.7 g                            |             |   |
| Report No.  | CC/2012/20001                      |             |   |
| Substance identification  |                                    |             |   |
| Substance name  | Concentration of Article (%)       | weight (mg) | providing information about safe use according to Article 33 is necessary |
| Anthracene  | n.d.                               | N/A         | No  |
| 4,4' - Diaminodiphenylmethane   | n.d.                               | N/A         | No  |
| DBP (Dibutyl phthalate)   | n.d.                               | N/A         | No  |
| BBP (Benzyl butyl phthalate)  | n.d.                               | N/A         | No  |
| Bis (2-ethyl(hexyl)phthalate) (DEHP)  | 0.0262                             | 40.7934     | No  |
| 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene)   | n.d.                               | N/A         | No  |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD) | n.d.                               | N/A         | No  |
| Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)   | n.d.                               | N/A         | No  |
| Bis(tributyltin)oxide   | n.d.                               | N/A         | No  |
| Cobalt dichloride   | n.d.                               | N/A         | No  |
| Diarsenic pentaoxide  | n.d.                               | N/A         | No  |
| Diarsenic trioxide  | n.d.                               | N/A         | No  |
| Triethyl arsenate   | n.d.                               | N/A         | No  |
| Lead hydrogen arsenate  | n.d.                               | N/A         | No  |
| Sodium chromate   | n.d.                               | N/A         | No  |
| Ammonium dichromate   | n.d.                               | N/A         | No  |
| Potassium dichromate  | n.d.                               | N/A         | No  |
| Potassium chromate  | n.d.                               | N/A         | No  |
| Sodium dichromate   | n.d.                               | N/A         | No  |
| Chromium trioxide   | n.d.                               | N/A         | No  |

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BANGKOK 10310 THAILAND



| Substance name  | Concentration of Article (%) | weight (mg) | providing information about safe use according to Article 33 is necessary |
|---|------------------------------|-------------|---|
| Acids generated from chromium trioxide and their oligomers: Chromic acid  | n.d.                         | N/A         | No  |
| Acids generated from chromium trioxide and their oligomers: Dichromic acid  | n.d.                         | N/A         | No  |
| Acids generated from chromium trioxide and their oligomers: Oligomers of chromic acid and dichromic acid  | n.d.                         | N/A         | No  |
| Strontium chromate  | n.d.                         | N/A         | No  |
| Anthracene oil  | n.d.                         | N/A         | No  |
| Anthracene oil, anthracene paste, distn. Lights   | n.d.                         | N/A         | No  |
| Anthracene oil, anthracene paste, anthracene fraction   | n.d.                         | N/A         | No  |
| Anthracene oil, anthracene-low  | n.d.                         | N/A         | No  |
| Anthracene oil, anthracene paste  | n.d.                         | N/A         | No  |
| Pitch, coal tar, high-temp.   | n.d.                         | N/A         | No  |
| Aluminosilicate, Refractory Ceramic Fibres<br>Al <sub>2</sub> O <sub>3</sub> : 43.5 - 47 % w/w, and SiO <sub>2</sub> : 49.5 - 53.5 % w/w, or Al <sub>2</sub> O <sub>3</sub> : 45.5 - 50.5 % w/w, and SiO <sub>2</sub> : 48.5 - 54 % w/w | n.d.                         | N/A         | No  |
| Zirconia Aluminosilicate, Refractory Ceramic Fibres<br>Al <sub>2</sub> O <sub>3</sub> : 35- 36 % w/w, and SiO <sub>2</sub> : 47.5 - 50 % w/w, and ZrO <sub>2</sub> : 15- 17 % w/w   | n.d.                         | N/A         | No  |
| DIBP (Di-isobutyl phthalate)  | n.d.                         | N/A         | No  |
| 2,4-Dinitrotoluene  | n.d.                         | N/A         | No  |
| Tris(2-chloroethyl) phosphate (TCEP)  | n.d.                         | N/A         | No  |
| Lead chromate   | n.d.                         | N/A         | No  |
| Lead chromate molybdate sulphate red (C.I. Pigment Red 104)   | n.d.                         | N/A         | No  |
| Lead sulfochromate yellow (C.I. Pigment Yellow 34)  | n.d.                         | N/A         | No  |
| Acrylamide  | n.d.                         | N/A         | No  |
| Boric acid  | n.d.                         | N/A         | No  |
| Disodium tetraborate, anhydrous   | n.d.                         | N/A         | No  |
| Tetraboron disodium heptaoxide, hydrate   | n.d.                         | N/A         | No  |
| Trichloroethylene   | n.d.                         | N/A         | No  |
| Cobalt(II) sulphate   | n.d.                         | N/A         | No  |

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BANGKOK 10310 THAILAND



| Substance name  | Concentration of Article (%) | weight (mg) | providing information about safe use according to Article 33 is necessary |
|---|------------------------------|-------------|---|
| Cobalt(II) dinitrate  | n.d.                         | N/A         | No  |
| Cobalt(II) carbonate  | n.d.                         | N/A         | No  |
| Cobalt(II) diacetate  | n.d.                         | N/A         | No  |
| 2-Methoxyethanol  | n.d.                         | N/A         | No  |
| 2-Ethoxyethanol   | n.d.                         | N/A         | No  |
| 2-ethoxyethyl acetate   | n.d.                         | N/A         | No  |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters     | n.d.                         | N/A         | No  |
| Hydrazine   | n.d.                         | N/A         | No  |
| 1-methyl-2-pyrrolidone  | n.d.                         | N/A         | No  |
| 1,2,3-trichloropropane  | n.d.                         | N/A         | No  |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) | n.d.                         | N/A         | No  |
| Arsenic acid  | n.d.                         | N/A         | No  |
| Calcium arsenate  | n.d.                         | N/A         | No  |
| Trilead diarsenate  | n.d.                         | N/A         | No  |
| Lead diazide, Lead azide  | n.d.                         | N/A         | No  |
| Lead styphnate  | n.d.                         | N/A         | No  |
| Lead dipicrate  | n.d.                         | N/A         | No  |
| Dichromium tris (chromate)  | n.d.                         | N/A         | No  |
| Potassium hydroxyoctaoxodizincatedi-chromate                                | n.d.                         | N/A         | No  |
| Pentazinc chromate octahydroxide  | n.d.                         | N/A         | No  |
| Formaldehyde, oligomeric reaction products with aniline (technical MDA)     | n.d.                         | N/A         | No  |
| Bis(2-methoxyethyl) phthalate   | n.d.                         | N/A         | No  |
| 2-Methoxyaniline; o-Anisidine   | n.d.                         | N/A         | No  |
| 4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol)                   | n.d.                         | N/A         | No  |
| 1,2-Dichloroethane  | n.d.                         | N/A         | No  |
| Bis(2-methoxyethyl) ether   | n.d.                         | N/A         | No  |
| N,N-dimethylacetamide (DMAC)  | n.d.                         | N/A         | No  |
| 2,2'-dichloro- 4,4'-methylenedianiline (MOCA)                               | n.d.                         | N/A         | No  |
| Phenolphthalein   | n.d.                         | N/A         | No  |

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BANGKOK 10310 THAILAND



| Substance name   | Concentration of Article (%) | weight (mg) | providing information about safe use according to Article 33 is necessary |
|--|------------------------------|-------------|---|
| Aluminosilicate, Refractory Ceramic Fibres<br>oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges                     | n.d.                         | N/A         | No  |
| Zirconia Aluminosilicate, Refractory Ceramic Fibres<br>oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges | n.d.                         | N/A         | No  |

### Note:

(A) N/A = Non-Available

### 【Appendix C】

Tested Unit No.1 : TRANSPARENT PLASTIC FILM (Weight: 155.7g)

| Substance Name  | Concentration (%) | RL (%) | Sample picture              |
|---|-------------------|--------|-----------------------------|
| Anthracene  | n.d.              | 0.005  | <p><b>CC/2012/20001</b></p> |
| 4,4' - Diaminodiphenylmethane   | n.d.              | 0.005  |                             |
| DBP (Dibutyl phthalate)   | n.d.              | 0.005  |                             |
| BBP (Benzyl butyl phthalate)  | n.d.              | 0.005  |                             |
| Bis (2-ethyl(hexyl)phthalate) (DEHP)  | 0.0262            | 0.005  |                             |
| 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene)   | n.d.              | 0.005  |                             |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD) | n.d.              | 0.005  |                             |
| Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)   | n.d.              | 0.01   |                             |
| Tributyl Tin (TBT)  | n.d.              | 0.005  |                             |
| Bis(tributyltin)oxide   | n.d.              | -      |                             |
| Cobalt dichloride   | n.d.              | 0.05   |                             |
| Arsenic (As)  | n.d.              | 0.005  |                             |
| Diarsenic pentaoxide  | n.d.              | -      |                             |
| Diarsenic trioxide  | n.d.              | -      |                             |
| Triethyl arsenate   | n.d.              | -      |                             |
| Lead (Pb)   | n.d.              | 0.005  |                             |

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DECORATIVE PLASTIC COMPANY LIMITED

514/11 SOI RAMKHAMHAENG 39 (THEPLEELA 1) PRACHA-UTIT ROAD, WANGTHONGLANG,  
BANGKOK 10310 THAILAND



| Substance Name   | Concentration (%) | RL (%) | Sample picture              |
|--|-------------------|--------|-----------------------------|
| Lead hydrogen arsenate   | n.d.              | -      | <p><b>CC/2012/20001</b></p> |
| Hexavalent Chromium Cr(VI)   | n.d.              | 0.005  |                             |
| Sodium chromate  | n.d.              | -      |                             |
| Ammonium dichromate  | n.d.              | -      |                             |
| Potassium dichromate   | n.d.              | -      |                             |
| Potassium chromate   | n.d.              | -      |                             |
| Sodium dichromate  | n.d.              | -      |                             |
| Chromium trioxide  | n.d.              | -      |                             |
| Acids generated from chromium trioxide and their oligomers:<br>Chromic acid  | n.d.              | -      |                             |
| Acids generated from chromium trioxide and their oligomers:<br>Dichromic acid  | n.d.              | -      |                             |
| Acids generated from chromium trioxide and their oligomers:<br>Oligomers of chromic acid and dichromic acid  | n.d.              | -      |                             |
| Strontium chromate   | n.d.              | -      |                             |
| Anthracene oil   | n.d.              | 0.05   |                             |
| Anthracene oil, anthracene paste, distn. Lights  | n.d.              | 0.05   |                             |
| Anthracene oil, anthracene paste, anthracene fraction  | n.d.              | 0.05   |                             |
| Anthracene oil, anthracene-low   | n.d.              | 0.05   |                             |
| Anthracene oil, anthracene paste   | n.d.              | 0.05   |                             |
| Pitch, coal tar, high-temp.  | n.d.              | 0.05   |                             |
| Aluminosilicate, Refractory Ceramic Fibres<br>Al <sub>2</sub> O <sub>3</sub> : 43.5 - 47 % w/w, and SiO <sub>2</sub> : 49.5 - 53.5 % w/w, or<br>Al <sub>2</sub> O <sub>3</sub> : 45.5 - 50.5 % w/w, and SiO <sub>2</sub> : 48.5 - 54 % w/w | n.d.              | 0.05   |                             |
| Zirconia Aluminosilicate, Refractory Ceramic Fibres<br>Al <sub>2</sub> O <sub>3</sub> : 35- 36 % w/w, and SiO <sub>2</sub> : 47.5 - 50 % w/w, and ZrO <sub>2</sub> :<br>15- 17 % w/w   | n.d.              | 0.05   |                             |
| DIBP (Di-isobutyl phthalate)   | n.d.              | 0.005  |                             |
| 2,4-Dinitrotoluene   | n.d.              | 0.005  |                             |
| Tris(2-chloroethyl) phosphate (TCEP)   | n.d.              | 0.005  |                             |
| Lead chromate  | n.d.              | 0.01   |                             |
| Lead chromate molybdate sulphate red (C.I. Pigment Red 104)  | n.d.              | 0.01   |                             |
| Lead sulfochromate yellow (C.I. Pigment Yellow 34)   | n.d.              | 0.01   |                             |

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DECORATIVE PLASTIC COMPANY LIMITED

514/11 SOI RAMKHAMHAENG 39 (THEPLEELA 1) PRACHA-UTIT ROAD, WANGTHONGLANG,  
BANGKOK 10310 THAILAND



| Substance Name  | Concentration (%) | RL (%) | Sample picture  |
|---|-------------------|--------|---|
| Acrylamide  | n.d.              | 0.005  | <p><b>CC/2012/20001</b></p>  |
| Boron (B)   | n.d.              | 0.005  |   |
| Boric acid  | n.d.              | -      |   |
| Disodium tetraborate, anhydrous   | n.d.              | -      |   |
| Tetraboron disodium heptaoxide, hydrate                                     | n.d.              | -      |   |
| Trichloroethylene   | n.d.              | 0.005  |   |
| Cobalt (Co)   | n.d.              | 0.005  |   |
| Cobalt(II) sulphate   | n.d.              | -      |   |
| Cobalt(II) dinitrate  | n.d.              | -      |   |
| Cobalt(II) carbonate  | n.d.              | -      |   |
| Cobalt(II) diacetate  | n.d.              | -      |   |
| 2-Methoxyethanol  | n.d.              | 0.005  |   |
| 2-Ethoxyethanol   | n.d.              | 0.005  |   |
| 2-ethoxyethyl acetate   | n.d.              | 0.05   |   |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters     | n.d.              | 0.05   |   |
| Hydrazine   | n.d.              | 0.05   |   |
| 1-methyl-2-pyrrolidone  | n.d.              | 0.05   |   |
| 1,2,3-trichloropropane  | n.d.              | 0.05   |   |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) | n.d.              | 0.05   |   |
| Arsenic acid  | n.d.              | -      |   |
| Calcium arsenate  | n.d.              | -      |   |
| Trilead diarsenate  | n.d.              | -      |   |
| Lead diazide, Lead azide  | n.d.              | -      |   |
| Lead styphnate  | n.d.              | -      |   |
| Lead dipicrate  | n.d.              | -      |   |
| Dichromium tris (chromate)  | n.d.              | -      |   |
| Potassium hydroxyoctaoxodizincatedi-chromate                                | n.d.              | -      |   |
| Pentazinc chromate octahydroxide  | n.d.              | -      |   |
| Formaldehyde, oligomeric reaction products with aniline (technical MDA)     | n.d.              | 0.05   |   |
| Bis(2-methoxyethyl) phthalate   | n.d.              | 0.05   |   |

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| Substance Name   | Concentration (%) | RL (%) | Sample picture  |
|--|-------------------|--------|---|
| 2-Methoxyaniline; o-Anisidine  | n.d.              | 0.05   | <p><b>CC/2012/20001</b></p>  |
| 4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol)  | n.d.              | 0.05   |   |
| 1,2-Dichloroethane   | n.d.              | 0.05   |   |
| Bis(2-methoxyethyl) ether  | n.d.              | 0.05   |   |
| N,N-dimethylacetamide (DMAC)   | n.d.              | 0.05   |   |
| 2,2'-dichloro- 4,4'-methylenedianiline (MOCA)  | n.d.              | 0.05   |   |
| Phenolphthalein  | n.d.              | 0.05   |   |
| Aluminosilicate, Refractory Ceramic Fibres<br>oxides of aluminium and silicon are the main components<br>present (in the fibres) within variable concentration ranges                        | n.d.              | 0.05   |   |
| Zirconia Aluminosilicate, Refractory Ceramic Fibres<br>oxides of aluminium, silicon and zirconium are the main<br>components present (in the fibres) within variable concentration<br>ranges | n.d.              | 0.05   |   |

### Note:

A. The average concentration of a whole article can be calculated per the following formula.

$$C_{Average\ of\ Article} = \frac{\sum_{i=1}^n (C_i \cdot W_i)}{\sum_{i=1}^n (W_i)}$$

$C_i$  : Concentration of a SVHC item in each tested unit

$W_i$  : Weight of each tested unit

$C_{Average\ of\ Article}$  : Average concentration of a whole article

\*\* End of Report \*\*

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