

To: EUN SUNG INT(H.J)

MARIO BD 317, 222-12, GURO-DONG, GURO-GU, SEOUL, KOREA

The following sample was submitted and identified by/on behalf of the client as: -

PRODUCT NAME	:	ELECTRIC MESH / 100% POLYESTER
SGS FILE NO.	:	AYSA10-01099
RECEIVED DATE	:	FEB. 08, 2010
TEST PERFORMING DATE	:	FEB. 08, 2010
TEST PERFORMED	:	SGS Testing Korea tested the sample(s) selected by applicant with following results
TEST REQUESTED	:	Thirty(30) Substances of Very High Concern (SVHC) screening SVHC candidate list of the second version based on the publication by European Chemicals Agency (ECHA) on 2010 January, 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 specified scope and analytical technique, concentrations of all SVHC are <0.1% in the submitted sample(s).

SGS Testing Korea Co., Ltd

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Michelle Yoo / SL&HL Director

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Test Sample:

ITEM/PART NAME : ELECTRIC MESH / 100% POLYESTER

Sample as received are classified as below categories :

Description		
Polymers : (i.e. PVC, PET, ABC , Rubber)		
Metals : (i.e. Alloy, Stainless, Aluminium)		
PCBA / Composite : (i.e. PCB, IC)		
Non-Metal and Non-Polymers : (i.e. Textile, Paper, Leather, Wood)		
Glass / Ceramic		
Others : (i.e. Chemical Substance or Preparation, Desiccant, Carbon/Ink in Cartridge)		

Remark:

1. Definition of classification is listed in *Appendix A* of this report in accordance with 67/548/EEC and Regulation (EC) No 1907/2006.

Test Method:

SGS In-House method-RSTS-EE-SVHC-002 and ZLS standard ZEK 01.2-08. Analyzed by ICP-AES, PLM, UV/VIS, LC/MS and GC/MS.

Remarks:

- 1. The chemical analysis of 30 SVHC is performed by means of currently available analytical techniques against the list published by ECHA on 2010 January. This list is under evaluation by ECHA and may subject to change in the future.
 - Refer to: http://echa.europa.eu/consultations/authorisation/svhc/svhc_cons_en.asp
- 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.

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Test Result:

Substance Name	CAS number	EC number	Concentration (%)	Reporting Limit (%)	Classification
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)			N.D.	0.01	PBT
Anthracene	120-12-7	204-371-1	N.D.	0.005	PBT
Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	N.D.	0.005	Toxic to Reproduction Category 2
Bis (2-ethylhexylphthalate) (DEHP)	117-81-7	204-211-0	N.D.	0.005	Toxic to Reproduction Category 2
Bis(tributyltin)oxide*	56-35-9	200-268-0	N.D.	0.005	PBT
Cobalt dichloride*	7646-79-9	231-589-4	N.D.	0.005	Carcinogen Category 2
4,4Diaminodiphenylmethane	101-77-9	202-974-4	N.D.	0.005	Carcinogen Category 2
Diarsenic pentaoxide*	1303-28-2	215-116-9	N.D.	0.005	Carcinogen Category 1
Diarsenic trioxide*	1327-53-3	215-481-4	N.D.	0.005	Carcinogen Category 1
Dibutyl phthalate (DBP)	84-74-2	201-557-4	N.D.	0.005	Toxic to Reproduction Category 2
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ- HBCDD)	25637-99- 4and 3194-55- 6 (134237-51- 7, 134237-50- 6, 134237-52- 8)	247-148-4 and 221-695- 9	N.D.	0.005	PBT
Lead hydrogen arsenate*	7784-40-9	232-064-2	N.D.	0.005	Carcinogen Category 1; Toxic to Reproduction Category 1
Sodium dichromate*	10588-01-9	234-190-3	N.D.	0.005	Carcinogen Category 2; Mutagen Category 2; Toxic to Reproduction Category 2
5-tert-butyl-2,4,6-trinitro-m- xylene (musk xylene)	81-15-2	201-329-4	N.D.	0.005	vPvB
Triethyl arsenate*	15606-95-8	427-700-2	N.D.	0.005	Carcinogen Category 1

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Test Result:

Substance Name	CAS number	EC number	Concentration (%)	Reporting Limit (%)	Classification
Acrylamide	79-06-01	201-173-7	N.D.	0.005	Carcinogen Category 2; Mutagen Category 2
Di-isobutyl phthalate(DIBP)	84-69-5	201-553-2	N.D.	0.005	Toxic to Reproduction Category 2
2,4-Dinitrotoluene	121-14-2	204-450-0	N.D.	0.005	Carcinogen Category 2
Tris(2-chloroethyl) phosphate	115-96-8	204-118-5	N.D.	0.005	Toxic to Reproduction Category 2
Anthracene oil	90640-80-5	292-602-7	N.D.	0.05	PBT; vPvB Carcinogen Category 2
Anthracene oil, anthracene paste; distn. Lights	91995-17-4	295-278-5	N.D.	0.05	PBT; vPvB; Carcinogen Category 2; Mutagen Category 2
Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	N.D.	0.05	PBT; vPvB; Carcinogen Category 2; Mutagen Category 2
Anthracene oil, anthracene-low	90640-82-7	292-604-8	N.D.	0.05	PBT; vPvB; Carcinogen Category 2; Mutagen Category 2
Anthracene oil, anthracene paste	90640-81-6	292-603-2	N.D.	0.05	PBT; vPvB; Carcinogen Category 2; Mutagen Category 2
Coal tar pitch, high temperature	65996-93-2	266-028-2	N.D.	0.05	PBT; vPvB; Carcinogen Category 2
Aluminosilicate, Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	-	N.D.	0.05^	Carcinogen Category 2
Zirconia Aluminosilicate, Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	-	N.D.	0.05^	Carcinogen Category 2
Lead sulfochromate yellow (C.I. Pigment Yellow 34)* [#]	1344-37-2	215-693-7	N.D.	0.005^	Carcinogen Category 2; Toxic to Reproduction Category 1
Lead chromate molybdate sulfate red (C.I. Pigment Red 104)* [#]	12656-85-8	235-759-9	N.D.	0.005^	Carcinogen Category 2; Toxic to Reproduction Category 1
Lead chromate*#	7758-97-6	231-846-0	N.D.	0.005^	Carcinogen Category 2; Toxic to Reproduction Category 1

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Note:

1. * =Calculated concentration of cobalt dichloride is based on the identified cobalt by ICP-AES and the identified chloride by IC method.

Calculated concentration of diarsenic pentaoxide, diarsenic trioxide, lead hydrogen arsenate and triethyl arsenate, aluminosilicate ,zirconia aluminosilicate, lead chromate, lead sulfochromate, Lead chromate molybdate are based on the identified heavy metal result (i.e. Arsenic, Lead, Silicon, Aluminum, Zirconium, Chromium) Further confirmation and quantitation techniques including UV-Vis spectrometry would be adopted whenever a positive result is found over the reporting limit.

Calculated concentrations of sodium dichromate are based on the identified sodium by ICP-AES and the identified chromium(VI) by spectroscopic method. The test result is reported as sodium dichromate (CAS number 10588-01-9). Please note that sodium dichromate dihydrate (CAS number 7789-12-0) is no longer classified as SVHC according to the latest amendment of 67/548/EEC (31th Adaptation to Technical progress). Calculated concentration of bis(tributyltin)oxide TBTO is based on the identified tin by ICP-AES. Identity of above metal substances present in the article has to be further confirmed.

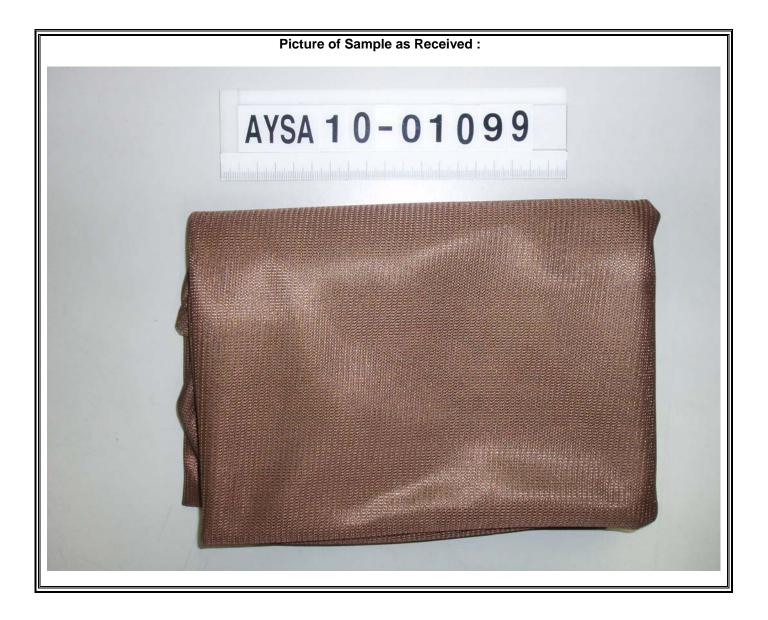
RL is evaluated for element (i.e. tin, cobalt, chloride, arsenic, lead, sodium, chromium (VI) respectively)

- 2. ND = Not detected (lower than Reporting Limit)
- 3. RL = Reporting Limit
- 4. [#] = The Cr concentration is based on Cr(VI) measurement.
- 5. Test result of anthracene oil and coal tar are calculated as per selected identifiers of the SVHC. The value is reported in aggregate per anthracene oil or coal tar and based on the worst-case scenario.
- 6. 0.1% (w/w) = 1,000 ppm = 1,000 mg/kg
- * = Reporting limit is derived from the detection limit of selected element(s) and/or ion(s). Reported concentration as per compound is calculated based upon the detected concentration of selected element(s) and/or ion(s).

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*** End of Report ***

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Appendix A

Classification	Definition under 67/548/EEC and Regulation (EC) No 1907/2006
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.
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. Generally on the basis of: - appropriate long-term animal studies - other relevant information.
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.
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: - appropriate animal studies, - other relevant information.
Toxic to Reproduction Category 1:	<u>Substances known to impair fertility in humans.</u> There is sufficient evidence to establish a causal relationship between human exposure to the substance and impaired fertility. <u>Substances known to cause developmental toxicity in humans.</u> There is sufficient evidence to establish a causal relationship between human exposure to the substance and subsequent developmental toxic effects in the progeny.
Toxic to Reproduction Category 2:	<u>Substances which should be regarded as if they impair fertility in humans.</u> There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in impaired fertility on the basis of: - 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, - other relevant information. <u>Substances which should be regarded as if they cause developmental toxicity to humans.</u> 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: - 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, - 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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