



Test Report

No. LPCI/11107/09
CTS Ref. CTS/09/2640/ASJ

Date : 15/07/2009

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ASJ COMPONENTS (M) SDN. BHD.
PTD 37440, JALAN PERINDUSTRIAN SENAI 3, KAWASAN PERINDUSTRIAN SENAI FASA 2,
81400 SENAI, JOHOR.

The following merchandise was (were) submitted and identified by the client as:

Sample Description : CR32 - Chip resistor 1206
Sample Receiving Date : 02/07/2009
Testing Period : 02/07/2009 to 15/07/2009

Test Requested : Fifteen (15) Substances of Very High Concern (SVHC) screening
SVHC list based on the publication by European Chemicals Agency (ECHA) on 2008 October 28, regarding Regulation (EC) No 1907/2006 concerning the REACH.

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

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

Summary : According to the specified scope and analytical technique, concentrations of all 15 SVHC are <0.1 % in the submitted sample(s).

Analysts : Ng Mei Kheng & Yee Sook Wai

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CHONG KIEN LEN
B.Sc.(HONS) AMIC
LAB MANAGER

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81400 SENAI, JOHOR.

Test Sample:

Test Part Description :

Sample Description : CR32 - Chip resistor 1206

Description	Weight %
Metal	0.00%
Plastic / Rubber	0.00%
PCB / Composite Material	0.00%
Non-Metal and Non-Plastic	0.00%
Other	100.00%

Remark :

1. The sample as received is tested as composite mixture (>0.1% w/w of the sample composition listed in this report).
2. 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 :

In house method reference to US EPA 3051A, US EPA 3052, US EPA 8270D, ISO 17353:2004-9, EN 14362-1: 2003 and analysed by ICP/MS & ICP/AES & GC/MS and GC/FPD

Remark :

1. The chemical analysis of 15 SVHC is performed by means of currently available analytical techniques against the list published by ECHA on 2008 October 28, and shall refer to http://echa.europa.eu/chem_data/candidate_list_table_en.asp. This list is under evaluation by ECHA and may subject to change in the future.
2. In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 4 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 totalling 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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B.Sc.(HONS) AMIC
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81400 SENAI, JOHOR.

Test result(s):

Substances Name	Unit	Concentration	RL	Classification
Anthracene (CAS No. : 000120-12-7)	%	N.D.	0.005	PBT
4,4' – Diaminodiphenylmethane (CAS No. : 000101-77-9)	%	N.D.	0.005	Carcinogen Category 2
Dibutyl phthalate (DBP) (CAS No. : 000084-74-2)	%	N.D.	0.005	Toxic to Reproduction Category 2
Benzyl butyl phthalate (BBP) (CAS No. : 000085-68-7)	%	N.D.	0.005	Toxic to Reproduction Category 2
Bis (2-ethylhexyl) phthalate (DEHP) (CAS No. : 000117-81-7)	%	N.D.	0.005	Toxic to Reproduction Category 2
5-tert-butyl-2,4,6-trinitro-m-xylene (Musk Xylene) (CAS No. : 000081-15-2)	%	N.D.	0.005	vPvB
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) (CAS No. : 025637-99-4 and 003194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	%	N.D.	0.005	PBT
* Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No. : 085535-84-8)	%	N.D.	0.01	PBT
Cobalt dichloride *** (CAS No. : 007646-79-9)	%	N.D.	0.005	Carcinogen Category 2
Diarsenic pentaoxide*** (CAS No. : 001303-28-2)	%	N.D.	0.005	Carcinogen Category 1
Diarsenic trioxide*** (CAS No. : 001327-53-3)	%	N.D.	0.005	Carcinogen Category 1
* Triethyl arsenate*** (CAS No. : 015606-95-8)	%	N.D.	0.001	Carcinogen Category 1
Lead hydrogen arsenate*** (CAS No. : 007784-40-9)	%	N.D.	0.005	Carcinogen Category 1 ; Toxic to Reproduction category 1

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B.Sc.(HONS) AMIC
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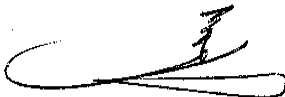
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Substances Name	Unit	Concentration	RL	Classification
* Bis(tributyltin)oxide*** (CAS No. : 000056-35-9)	%	N.D.	0.000003	PBT
Sodium dichromate*** (CAS No. : 010588-01-9(*))	%	N.D.	0.005	Carcinogen Category 2 ; Mutagen Category 2, Toxic to Reproduction category 2

- Note :
- (a) mg/kg = ppm ; (0.1wt% = 1000ppm)
 - (b) RL = Reporting Limit
 - (c) N.D. = Not Detected = below Reporting Limit
 - (d) *** = The substances was calculated by the test results of Tributyl Tin or element
 (Ex. Arsenic, Lead, Cobalt or Cr(VI) respectively).
 - (e) (*) : conc. of Sodium dichromate dihydrate (CAS No. : 007789-12-0) = conc. of Sodium dichromate x
 1.1374
 - (f) * : The above tests are subcontracted to SGS Taiwan.

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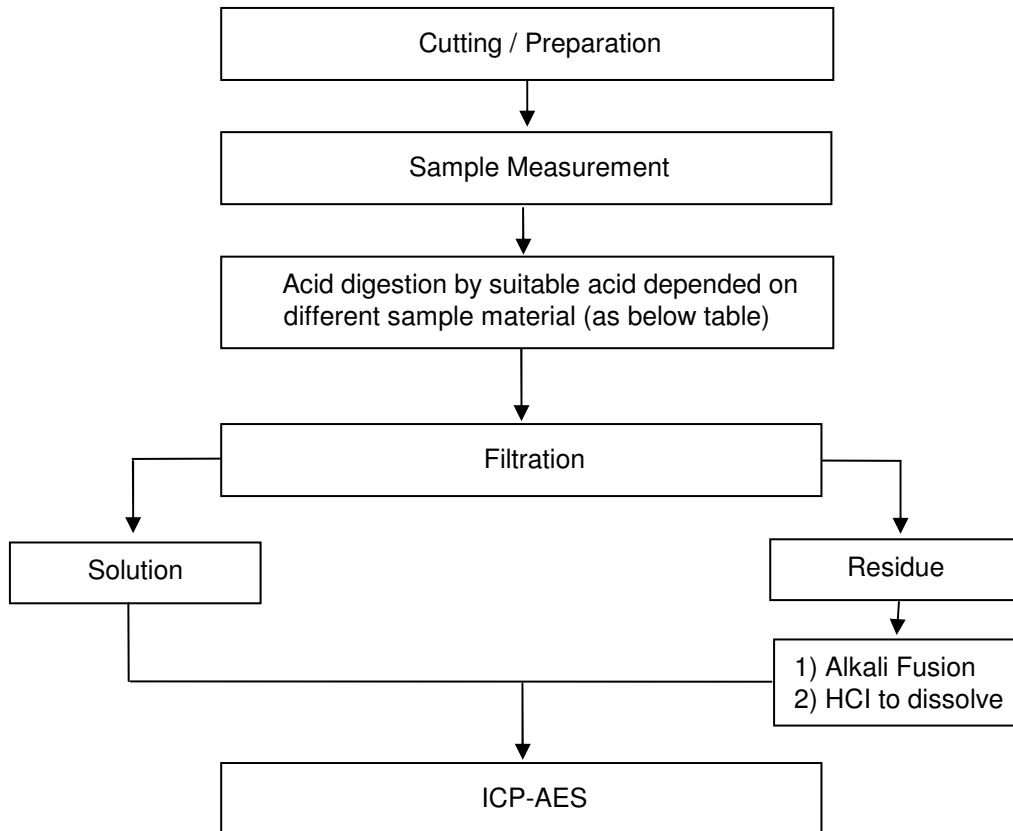


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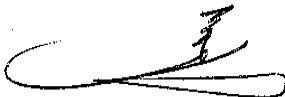
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Flow Chart of Digestion for elements analysis



Steel, copper, aluminium, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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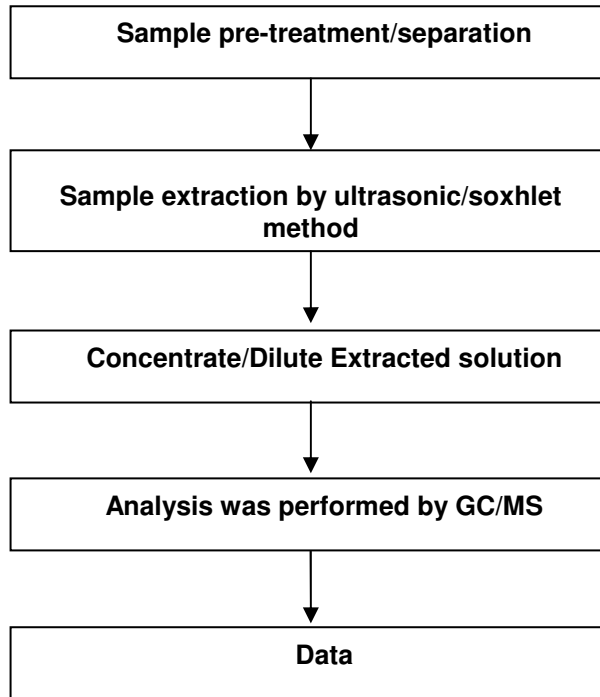


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B.Sc.(HONS) AMIC
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Analytical flow chart of Semi- volatile content



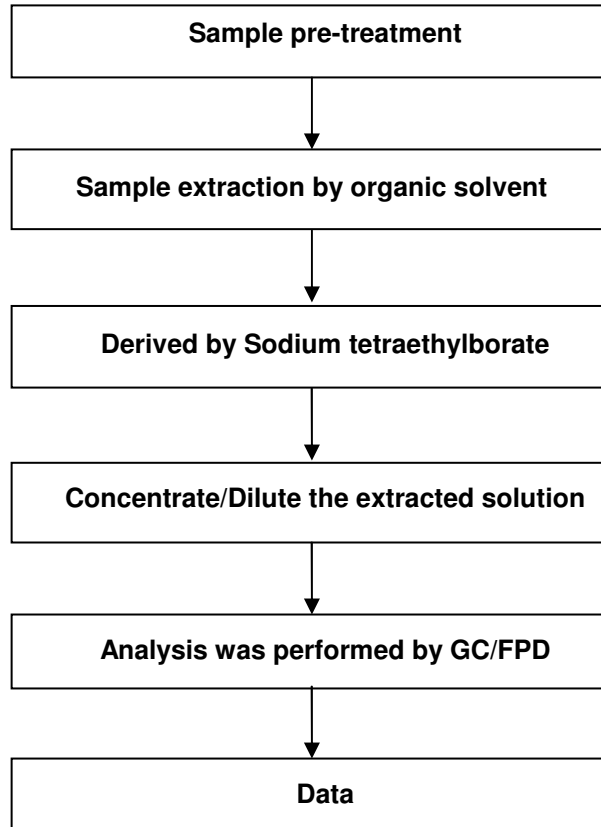
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Analytical flow chart of Organic-Tin Content



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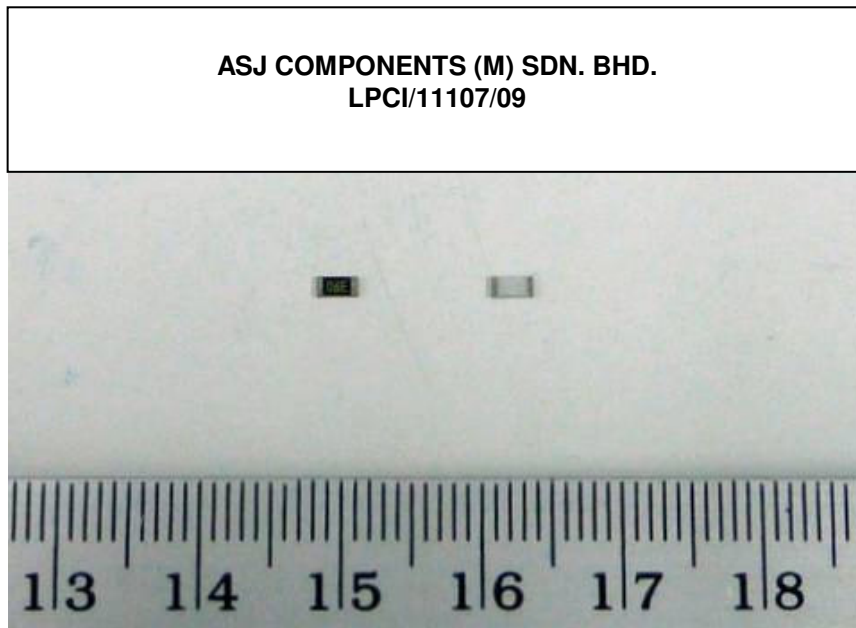
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Test Part Description :

Sample Description : CR32 - Chip resistor 1206



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Appendix A

Classification	Definition under 67/548/EC 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: <ul style="list-style-type: none"> - 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 substance and heritable genetic damage.
Mutagen Category 2:	Substance 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: <ul style="list-style-type: none"> - appropriate animal studies, - other relevant information.
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. 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.
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: <ul style="list-style-type: none"> - 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. 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: <ul style="list-style-type: none"> - 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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