

## Test Report

TAITA CHEMICAL COMPANY LIMITED

Report No: CY/2003/52509

Date: 2003/06/03

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**The following merchandise was submitted & identified by the client as:**

Type of Product: EXPANDABLE POLYSTYRENE(EPS)

Date of Sample received: 2003/05/02 & 05/28

### Test Requested:

1. Hexavalent Chromium, K, Ba, Se and Sb content of submitted sample.
2. The quantitative analysis of PBBs, PBDEs, Chlorinated Paraffin(C10~C13) and Polychlorinated Naphthalene of submitted sample.
3. The quantitative analysis of Mirex of submitted sample.
4. The quantitative analysis of PCBs of submitted sample.
5. Tributyl Tin(TBT) and Triphenyl Tin of submitted sample.
6. Asbestos analysis of submitted sample.
7. The qualitative analysis of formaldehyde of submitted sample.
8. PVC free test.
9. AZO content of submitted sample.

### Test Method:

1. Hexavalent Chromium: Analysis by US EPA7196A with advance treatment US EPA3060A.  
K, Ba and Sb content: Analysis by ICP-AES with advance treatment US EPA3050B.  
Se content : Analysis by ICP-AES with advance treatment US EPA3052  
Analysis by Inductively coupled Plasma atomic emission spectroscopy techniques.(ICP-AES)
2. As per GC/MS.
3. As per GC/MS.
4. As per GC/ECD /MS.
5. By using GC /FPD with the procedure outline in DIN38407.
6. Health Canada-Product safety Bureau reference manual book5-laboratory policies and procedures (FTIR)
7. Sample was analyzed by HPLC/DAD.
8. FTIR/ATR and Flame test.
9. The sample is digested at a temperature of 70 degree C with an aqueous solution of sodium dithionite in the presence of Citrate Buffer of pH 6. The reaction products are purified on an Extrelut Column, eluted with tert-butyl methyl ether then identified by Gas Chromatographic-Mass Spectrometry (GC-MS)/Thin layer Chromatography (TLC) Technique. (Official Collection of test methods pursuant to Section 35 of the German foodstuffs and Commodity Articles Act, January 1998, 82.02.2)

### Test Results:

Please see next page.

\*This report is re-test CY/2003/50016 report \*

  
Anren Lee, M.R./Asst. Supervisor

Signed for and on behalf of  
SGS TAIWAN LTD.

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### Test Results:

Unit:ppm(mg/kg)

#### 1. Hexavalent Chromium, K, Ba, Se and Sb content

Item	NO.1
Hexavalent Chromium	N.D.
K	59.3
Ba	N.D.
Se	N.D.
Sb	N.D.

Note:N.D.=Non-detected (<2.0 ppm)

#### 2.The quantitative analysis of PBBs, PBDEs(PBBEs), Chlorinated Paraffin and Polychlorinated Naphthalene of submitted sample.

Compounds	No1
PBBs(Polybrominated biphenyls)	N.D.
PBBEs(Polybrominated biphenyl ethers)	N.D.
Polychlorinated Naphthalene	N.D.

Note :N.D.: = Non-detected (<5.0 ppm)

Compounds	No1
Chlorinated Paraffin (C10~C13)	N.D.

Note :N.D.: = Non-detected (<1.0 ppm)

#### 3.The quantitative analysis of Mirex of submitted sample.

Compounds	No.1
Mirex	N.D.

Note :N.D.: = Non-detected (<4.0 ppm)

#### 4.The quantitative analysis of PCBs of submitted sample.

Compounds	No.1
PCBs(Polychlorinated Biphenyls)	N.D.

Note :N.D.: = Non-detected (<0.5 ppm)



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### 5.Organic Tin- Tributyl Tin, Triphenyl Tin content

#### Compounds

	<u>No.1</u>
(1)TBT	N.D.
(2)Triphenyl Tin	N.D.

Note :N.D.: = Non-detected (<0.001 ppm)

### 6. Asbestos

#### Test Item

	<u>No.1</u>
Asbestos	N.D.

Note :N.D.: = Non-detected

### 7. Formaldehyde

#### Test Item

	<u>No.1</u>
Formaldehyde	N.D.

Note :N.D.: = Non-detected(<2.5)

### 8. PVC

#### Test Item

	<u>No.1</u>
PVC	N.D.

Note :N.D.: = Non-detected

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### 9.AZO TEST CONDUCTED

NO RELEVANT AMINE EXCEEDS 30.0 MG/KG (PPM).

WITHIN THE SCOPE OF THE TEST, NO EVIDENCE WAS FOUND OF THE PRESENCE IN THE SUBMITTED SAMPLE(S) SPECIFIED ABOVE OF ANY AZO DYE OR PIGMENT THAT IS A FORBIDDEN DYES WITHIN THE MEANING OF THE ORDINANCE OF COMMODITIES ARTICLES ORDER.

### DETECTION OF AMINES IN DYESTUFF (UNIT: PPM)

TEST ITEM(S)	CAS NO.	No.1
1):4-AMINODIPHENYL	92-67-1	ND
2):BENZIDINE	92-87-5	ND
3):4-CHLORO-O-TOLUIDINE	95-69-2	ND
4):2-NAPHTHYLAMINE	91-59-8	ND
5):O-AMINOAZOTOLUENE	97-56-3	ND
6):2-AMINO-4-NITROTOLUENE	99-55-8	ND
7):P-CHLOROANILINE	106-47-8	ND
8):2,4-DIAMINOANISOLE	615-05-4	ND
9):4,4-DIAMINODIPHENYLMETHANE	101-77-9	ND
10):3,3-DICHLOROBENZIDINE	91-94-1	ND
11):3,3-DIMETHOXYBENZIDINE	119-90-4	ND
12):3,3-DIMETHYLBENZIDINE	119-93-7	ND
13):3,3-DIMETHYL-4,4-DIAMINODIPHENYLMETHANE	838-88-0	ND
14):P-CRESIDINE(2-METHOXY-5-METHYLANILINE)	120-71-8	ND
15):4,4-METHYLENE-BIS-(2-CHLORANILINE)	101-14-4	ND
16):4,4-OXYDIANILINE	101-80-4	ND
17):4,4-THIODIANILINE	139-65-1	ND
18):O-TOLUIDINE	95-53-4	ND
19):2,4-TOLUYLENDIAMINE	95-80-7	ND
20):2,4,5-TRIMETHYLANILINE	137-17-7	ND
21):O-AMISIDINE 2-methoxyaniline	90-04-0	ND
22):2,4-XYLIDINE	95-68-1	ND

REMARK : ND : NOT DETECTED.

DETECTION LIMIT : 5.00 PPM

### Description:

No.1 Transparent-white plastic pellets.

Note : Date of testing: 2003/05/03-09 & 05/29-06/03

ppm = Parts per million (mg/kg)

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