GLOBAL EXPERT ON CHEMICAL REGULATION SERVICE

REACH Test Report

Sample Serial No. : 201300227003

Applicant	Igepa group GmbH & Co., KG
Address	Sachsenfeld 4, 20097 Hamburg, Germany
Sample Name	MasterJet S BlockOut 510 B1 TWISTER
Item-No.	SBI-BO510R
Description	White film
Test Period	Mar. 1, 2013 ~ Mar. 6, 2013
Test Requirement	Eighty four (84) Substances of Very High Concern (SVHC) analysis. SVHC list is based on the publication by European Chemical Agency (ECHA), regarding regulation (EC) No 1907/2006 concerning the REACH.
Test Method	CIRS-TC-SVHC001, CIRS-TC-SVHC002, CIRS-TC-SVHC003, CIRS-TC-SVHC004
Test Results	The concentrations of the 84 SVHCs defined in Article 57 of REACH Regulation in the client's product(s) are less than the concentration limit of 0.1 % weight by weight (w/w). Please refer to next page(s).

Complied by Zhang Meiting Inspected by Su Zhenzhen Approved by Walt Lin

Walt Lin/ General Manager

CIRS Europe
Tel: +353 41 9806916
Fax: +353 41 9806999
Website: www.cirs-reach.com
Email: info@cirs-reach.com

Headquarters
Tel: +86-571-87206555
Website: www.cirs-group.com
Email: test@cirs-group.com
Hotline: 4006-721-723

Laboratory
Tel:+86-571-89900710
2/F,No.4 Building,Huaye Hi-tech Zone,
No.1180,Bin'an Road,Hangzhou,
Zhejiang,P.R.China

Test Results (Unit: mg/kg):

1. SVHCs publicized on 28 October 2008

No.	Test Item(s)	CAS No.	MCV	Method	MDL	Test Result(s)
1	Anthracene	120-12-7	1000	CIRS-TC-SVHC001	100	N.D.(QT)
2	4,4'- Diaminodiphenylmethane(MDA)	101-77-9	1000	CIRS-TC-SVHC001	100	N.D.(QT)
3	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	1000	CIRS-TC-SVHC001	100	N.D.(QT)
4	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	25637-99-4, 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	1000	CIRS-TC-SVHC001	100	N.D.(QT)
5	Alkanes, C10-13,chloro (Short ChainChlorinated Paraffins)	85535-84-8	1000	CIRS-TC-SVHC001	100	N.D.(QT)
6	Dibutyl phthalate(DBP)	84-74-2	1000	CIRS-TC-SVHC001	10	24
7	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	1000	CIRS-TC-SVHC001	10	180
8	Benzyl butyl phthalate(BBP)	85-68-7	1000	CIRS-TC-SVHC001	10	N.D.(QT)
9	Cobalt dichloride	7646-79-9	1000	CIRS-TC-SVHC003	100	N.D.(ST)
10	Bis(tributyltin)oxide(TBTO)	56-35-9	1000	CIRS-TC-SVHC001/ CIRS-TC-SVHC003	100	N.D.(ST)
11	Sodium dichromate	7789-12-0, 10588-01-9	1000	CIRS-TC-SVHC003/ CIRS-TC-SVHC004	100	N.D.(ST)
12	Lead hydrogen arsenate	7784-40-9	1000	CIRS-TC-SVHC001	100	N.D.(ST)
13	Diarsenic trioxide	1327-53-3	1000	CIRS-TC-SVHC003	100	N.D.(ST)
14	Diarsenic pentaoxide	1303-28-2	1000	CIRS-TC-SVHC001	100	N.D.(ST)
15	Triethyl arsenate	15606-95-8	1000	CIRS-TC-SVHC003	100	N.D.(ST)

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2. SVHCs publicized on 13 January 2010 and 30 March 2010

No.	Test Item(s)	CAS No.	MCV	Method	MDL	Test Result(s)
16	Anthracene oil	90640-80-5	1000	CIRS-TC-SVHC001	100	N.D.(QT)
17	Anthracene oil, anthracene paste, distn. lights	91995-17-4	1000	CIRS-TC-SVHC001	100	N.D.(QT)
18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	1000	CIRS-TC-SVHC001	100	N.D.(QT)
19	Anthracene oil, anthracene-low	90640-82-7	1000	CIRS-TC-SVHC001	100	N.D.(QT)
20	Anthracene oil, anthracene paste	90640-81-6	1000	CIRS-TC-SVHC001	100	N.D.(QT)
21	Pitch, coal tar, high temp.	65996-93-2	1000	CIRS-TC-SVHC001	100	N.D.(QT)
22	Acrylamide	79-06-1	1000	CIRS-TC-SVHC002	100	N.D.(QT)
23	2,4-Dinitrotoluene	121-14-2	1000	CIRS-TC-SVHC001	100	N.D.(QT)
24	Diisobutyl phthalate	84-69-5	1000	CIRS-TC-SVHC001	10	N.D.(QT)
25	Tris(2-chloroethyl)phosphate	115-96-8	1000	CIRS-TC-SVHC001	100	N.D.(QT)
26	Lead chromate	7758-97-6	1000	CIRS-TC-SVHC003/ CIRS-TC-SVHC004	100	N.D.(ST)
27	Lead chromate molybdate sulphate red(C.I. Pigment Red 104)	12656-85-8	1000	CIRS-TC-SVHC003/ CIRS-TC-SVHC004	100	N.D.(ST)
28	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	1000	CIRS-TC-SVHC003/ CIRS-TC-SVHC004	100	N.D.(ST)

3. SVHCs publicized on 18 June 2010

No.	Test Item(s)	CAS No.	MCV	Method	MDL	Test Result(s)
29	Trichloroethylene	79-01-6	1000	CIRS-TC-SVHC002	100	N.D.(QT)
30	Boric acid	10043-35-3, 11113-50-1	1000	CIRS-TC-SVHC003	100	N.D.(QT)
31	Disodium tetraborate, anhydrous	1303-96-4, 1330-43-4, 12179-04-3	1000	CIRS-TC-SVHC003	100	N.D.(QT)
32	Tetraboron disodium heptaoxide, hydrate	12267-73-1	1000	CIRS-TC-SVHC003	100	N.D.(QT)
33	Sodium chromate	7775-11-3	1000	CIRS-TC-SVHC003/ CIRS-TC-SVHC004	100	N.D.(ST)
34	Potassium chromate	7789-00-6	1000	CIRS-TC-SVHC003/ CIRS-TC-SVHC004	100	N.D.(ST)
35	Ammonium dichromate	7789-09-5	1000	CIRS-TC-SVHC003/ CIRS-TC-SVHC004	100	N.D.(ST)
36	Potassium dichromate	7778-50-9	1000	CIRS-TC-SVHC003/ CIRS-TC-SVHC004	100	N.D.(ST)

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4. SVHCs publicized on 15 December 2010

No.	Test Item(s)	CAS No.	MCV	Method	MDL	Test Result(s)
37	Chromium trioxide	1333-82-0	1000	CIRS-TC-SVHC003/ CIRS-TC-SVHC004	100	N.D.(ST)
38	2-Ethoxyethanol	110-80-5	1000	CIRS-TC-SVHC002	100	N.D.(QT)
39	2-Methoxyethanol	109-86-4	1000	CIRS-TC-SVHC002	100	N.D.(QT)
40	Cobalt(II) diacetate	71-48-7	1000	CIRS-TC-SVHC003	100	N.D.(ST)
41	Cobalt (II) carbonate	513-79-1	1000	CIRS-TC-SVHC003	100	N.D.(ST)
42	Cobalt dinitrate	10141-05-6	1000	CIRS-TC-SVHC003	100	N.D.(ST)
43	Cobalt (II) sulphate	10124-43-3	1000	CIRS-TC-SVHC003	100	N.D.(ST)
44	Acids generated from chromium trioxide and their oligomers. Group containing: Chromic acid, Dichromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	7738-94-5, 13530-68-2	1000	CIRS-TC-SVHC003/ CIRS-TC-SVHC004	100	N.D.(ST)

5. SVHCs publicized on 20 June 2011

No.	Test Item(s)	CAS No.	MCV	Method	MDL	Test Result(s)
45	2-Ethoxyethyl acetate	111-15-9	1000	CIRS-TC-SVHC001	100	N.D.(QT)
46	Strontium chromate	7789-06-2	1000	CIRS-TC-SVHC003/ CIRS-TC-SVHC004	100	N.D.(ST)
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	1000	CIRS-TC-SVHC001	100	N.D.(QT)
48	Hydrazine	7803-57-8, 302-01-2	1000	CIRS-TC-SVHC002	100	N.D.(QT)
49	N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone	872-50-4	1000	CIRS-TC-SVHC002	100	N.D.(QT)
50	1,2,3-trichloropropane	96-18-4	1000	CIRS-TC-SVHC002	100	N.D.(QT)
51	1, 2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	1000	CIRS-TC-SVHC001	100	N.D.(QT)

CIRS Europe
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6. SVHCs publicized on 19 December 2011

No.	Test Item(s)	CAS No.	MCV	Method	MDL	Test Result(s)
52	Calcium arsenate	7778-44-1	1000	CIRS-TC-SVHC003	100	N.D.(ST)
53	Bis(2-methoxyethyl) ether	111-96-6	1000	CIRS-TC-SVHC002	100	N.D.(QT)
54	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	1000	CIRS-TC-SVHC003/ CIRS-TC-SVHC004	100	N.D.(ST)
55	Lead dipicrate	6477-64-1	1000	CIRS-TC-SVHC003	100	N.D.(ST)
56	N,N-dimethylacetamide	127-19-5	1000	CIRS-TC-SVHC002	100	N.D.(QT)
57	Arsenic acid	7778-39-4	1000	CIRS-TC-SVHC003	100	N.D.(ST)
58	2-Methoxyaniline; o-Anisidine	90-04-0	1000	CIRS-TC-SVHC002	100	N.D.(QT)
59	Trilead diarsenate	3687-31-8	1000	CIRS-TC-SVHC003	100	N.D.(ST)
60	1,2-dichloroethane	107-06-2	1000	CIRS-TC-SVHC002	100	N.D.(QT)
61	Pentazinc chromate octahydroxide	49663-84-5	1000	CIRS-TC-SVHC003/ CIRS-TC-SVHC004	100	N.D.(ST)
62	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	1000	CIRS-TC-SVHC001	100	N.D.(QT)
63	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	1000	CIRS-TC-SVHC002	100	N.D.(QT)
64	Bis(2-methoxyethyl) phthalate	117-82-8	1000	CIRS-TC-SVHC001	10	N.D.(QT)
65	Lead diazide, Lead azide	13424-46-9	1000	CIRS-TC-SVHC003	100	N.D.(ST)
66	Lead styphnate	15245-44-0	1000	CIRS-TC-SVHC003	100	N.D.(ST)
67	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	1000	CIRS-TC-SVHC001	100	N.D.(QT)
68	Phenolphthalein	77-09-8	1000	CIRS-TC-SVHC001	100	N.D.(QT)
69	Dichromium tris(chromate)	24613-89-6	1000	CIRS-TC-SVHC003/ CIRS-TC-SVHC004	100	N.D.(ST)
70*	Aluminosilicate Refractory Ceramic Fibres	---	1000	CIRS-TC-SVHC003	100	N.D.(ST)
71*	Zirconia Aluminosilicate, Refractory Ceramic Fibres	---	1000	CIRS-TC-SVHC003	100	N.D.(ST)

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7. SVHCs publicized on 18 June 2012

No.	Test Item(s)	CAS No.	MCV	Method	MDL	Test Result(s)
72	1,2-bis (2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	1000	CIRS-TC-SVHC002	100	N.D.(QT)
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	1000	CIRS-TC-SVHC002	10	N.D.(QT)
74	Diboron trioxide	1303-86-2	1000	CIRS-TC-SVHC003	100	N.D.(ST)
75	Formamide	75-12-7	1000	CIRS-TC-SVHC002	100	N.D.(QT)
76	Lead (II) bis (methanesulfonate)	17570-76-2	1000	CIRS-TC-SVHC002	100	N.D.(ST)
77	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	1000	CIRS-TC-SVHC002	100	N.D.(QT)
78	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	1000	CIRS-TC-SVHC002	100	N.D.(QT)
79	4,4'-bis (dimethylamino) benzophenone (Michler's ketone)	90-94-8	1000	CIRS-TC-SVHC002	100	N.D.(QT)
80	N, N, N', N' –tetramethyl -4,4' -methylenedianiline (Michler's base)	101-61-1	1000	CIRS-TC-SVHC002	100	N.D.(QT)
81**	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	1000	CIRS-TC-SVHC002	100	N.D.(QT)
82**	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	1000	CIRS-TC-SVHC002	100	N.D.(QT)
83**	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	1000	CIRS-TC-SVHC002	100	N.D.(QT)
84**	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol	561-41-1	1000	CIRS-TC-SVHC002	100	N.D.(QT)

Remarks:

1. N.D. = Not detected (<MDL); MDL= Method Detection Limits; MCV= Maximum Concentration Values ST= Screening Test method; QT= Qualitative Test method.
2. *: Be covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and

CIRS Europe
Tel: +353 41 9806916
Fax: +353 41 9806999
Website: www.cirs-reach.com
Email: info@cirs-reach.com

Headquarters
Tel: +86-571-87206555
Website: www.cirs-group.com
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packaging of substances and mixtures:

(70*) Aluminosilicate Refractory Ceramic Fibres

a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges

b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm)

c) alkaline oxide and alkali earth oxide ($Na_2O+K_2O+CaO+MgO+BaO$) content less or equal to 18% by weight

(71*) Zirconia Aluminosilicate Refractory Ceramic Fibres

a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges

b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm).

c) alkaline oxide and alkali earth oxide ($Na_2O+K_2O+CaO+MgO+BaO$) content less or equal to 18% by weight

3. ** (Items 81, 82, 83, 84) [with ≥ 0.1% of Michler's ketone (EC No. 202 -027-5) or Michler's base (EC No. 202-959-2)] is identified as a substance meeting the criteria of Article 57 (a) of Regulation (EC) 1907/2006 (REACH) owing to its classification as carcinogen category 1A or 1B.

4. The substances are tested by in-house methods: CIRS-TC-SVHC001, CIRS-TC-SVHC002, CIRS-TC-SVHC003 and CIRS-TC-SVHC004 which refer to the methods listed below:

1) EN 14372:2004 Child use and care articles — Cutlery and feeding utensils —Safety requirements and tests
2) US EPA 8061A:1996 Phthalate Esters by Gas Chromatography with Electron Capture Detection (GC/ECD)
3) US EPA 3540C:1996 Soxhlet Extraction
4) US EPA 3550C:2007 Ultrasonic Extraction
5) US EPA 8270D:2007 Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry
6) EN 14362-1:2012 Textiles - Methods for determination of certain aromatic amines derived from Azo colorants - Part 1: Detection of the use of certain Azo colorants accessible with and without extracting the fibres
7) EN 14362-3:2012 Textiles. Methods for determination of certain aromatic amines derived from Azo colorants. Part 3:Detection of the use of certain Azo colorants, which may release 4-aminoazobenzene
8) US EPA 8260C:2006 Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
9) US EPA 5021:1996 Volatile Organic Compounds in Soils and Other Solid Matrices Using Equilibrium Headspace Analysis
10) ISO 17075:2007 Leather — Chemical tests — Determination of chromium(VI) content
11) US EPA 3060A:1996 Alkaline Digestion for Hexavalent Chromium
12) US EPA 7196A:1992 Chromium, Hexavalent (Colorimetric)
13) ISO 3613:2000C Test methods—Metallic and other inorganic coatings — Chromate conversion coatings on zinc, cadmium, aluminium-zinc alloys and zincaluminium alloys

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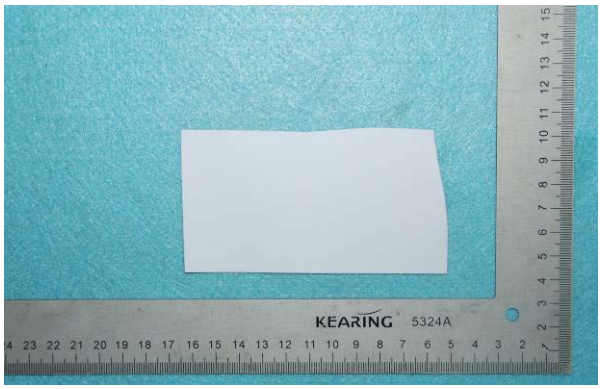
14)US EPA 3050B:1996 Acid Digestion of Sediments, Sludges, and Soils
15)US EPA 3051A:2007 Microwave Assisted Acid Digestion of Sediments, Sludges, Soils, and Oils
16)US EPA 3052:1996 Microwave Assisted Acid Digestion of Siliceous and Organically Based Matrices
17)US EPA 6010C:2007 Inductively Coupled Plasma-Atomic Emission Spectrometry

5. Because it is difficult to detect the substances $CoCl_2$, $C_{24}H_{54}OSn_2$, $Na_2Cr_2O_7$, $PbAsHO_4$, As_2O_3, As_2O_5, Triethyl arsenate $PbCrO_4$, Lead chromate molybdate sulphate red (C.I. Pigment Red 104), Lead sulfochromate yellow (C.I. Pigment Yellow 34), Triethyl arsenate, H_3BO_3, $Na_2B_4O_7$, $Na_2B_4O_7 \cdot 7H_2O$, Na_2CrO_4, K_2CrO_4, $(NH_4)_2Cr_2O_7$, $K_2Cr_2O_7$, CrO_3, $Co(CH_3COO)_2$, $CoCO_3$, $Co(NO_3)_2$, $CoSO_4$, $SrCrO_4$, Calcium arsenate, Potassium hydroxyoctaoxodizincatedichromate, Lead dipicrate, Arsenic acid, Trilead diarsenate, Pentazinc chromate octahydroxide, Lead diazide, Lead azide, Lead styphnate, Diboron trioxide, Lead (II) bis (methanesulfonate), Aluminosilicate Refractory Ceramic Fibres, Zirconia Aluminosilicate, Refractory Ceramic Fibres,s Dichromium tris(chromate), Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid) via direct tests (but via converting them into detectable elements, we consider that all the relative elements exist in the form of their compounds when having the test.

Photo(s):



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The end of report

CIRS Europe
Tel: +353 41 9806916
Fax: +353 41 9806999
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Email: info@cirs-reach.com

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