

1 TEST RESULT

1.1 SVHC Testing Results-Regulation(EC) No.1907/2006

No.	Substance of Very High Concern	CAS No.	Result (%)
			01
1	Anthracene *	120-12-7	ND
2	4, 4' -Diaminodiphenylmethane(MDA)	101-77-9	ND
3	Dibutyl Phthalate (DBP) *	84-74-2	ND
4	Cobalt Dichloride Δ	7646-79-9	ND
5	Diarsenic Pentaoxide Δ	1303-28-2	ND
6	Diarsenic Trioxide Δ	1327-53-3	ND
7	Sodium Dichromate Δ	7789-12-0, 10588-01-9	ND
8	5-Tert-Butyl-2,4,6-Trinitro-M-Xylene * (Musk-Xylene)	81-15-2	ND
9	Bis (2-Ethyl Hexyl) Phthalate(DEHP) *	117-81-7	ND
10	Hexabromocyclododecane, * (HBCDD) #1	25637-99-4, 3194-55-6	ND
11	Short Chain Chlorinated Paraffin,C10-C13 (SCCP) *	85535-84-8	ND
12	Bis (Tributyltin) Oxide(TBTO)#2	56-35-9	ND
13	Lead Hydrogen Arsenate Δ	7784-40-9	ND
14	Triethyl Arsenate Δ	15606-95-8	ND
15	Benzyl Butyl Phthalate (BBP) *	85-68-7	ND
16	Anthracene oil#3	90640-80-5	ND
17	Anthracene oil, Anthracene paste, distn.Lights#3	91995-17-4	ND
18	Anthracene oil, anthracene paste, anthracene fraction#3	91995-15-2	ND
19	Anthracene oil, Anthracene-low#3	90640-82-7	ND
20	Anthracene oil, anthracene paste#3	90640-81-6	ND
21	Pitch, coal tar, high-temp#3	65996-93-2	ND
22	Aluminosilicate, Refractory Ceramic Fibres #4Δ	Index no.: 650-017-00-8	ND
23	Zirconia Aluminosilicate,Refractory Ceramic Fibres #5Δ	Index no. 650-017-00-8	ND

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No.	Substance of Very High Concern	CAS No.	Result (%)
			01
24	Di-isobutylphthalate (DIBP) *	84-69-5	ND
25	2,4-Dinitrotoluene (DNT) *	121-14-2	ND
26	Tris(2-chloroethyl) phosphate (TCEP) *	115-96-8	ND
27	Lead chromate Δ	7758-97-6	ND
28	Lead chromate molybdate sulphate red(C.I. Pigment Red104) Δ	12656-85-8	ND
29	Lead sulfochromate yellow (C.I. Pigment Yellow 34) Δ	1344-37-2	ND
30	Acrylamide*	79-06-1	ND
31	Trichloroethylene (TCE) *	79-01-6	ND
32	Boric acid Δ	10043-35-3, 11113-50-1	ND
33	Disodium tetraborate, Anhydrous Δ	1303-96-4, 1330-43-4, 12179-04-3	ND
34	Tetraboron disodium heptaoxide, hydrate Δ	12267-73-1	ND
35	Sodium chromate Δ	7775-11-3	ND
36	Potassium chromate Δ	7789-00-6	ND
37	Ammonium dichromate Δ	7789-09-5	ND
38	Potassium dichromate Δ	7778-50-9	ND
39	Cobalt(II) sulphate Δ	10124-43-3	ND
40	Cobalt(II) dinitrate Δ	10141-05-6	ND
41	Cobalt(II) carbonate Δ	513-79-1	ND
42	Cobalt(II) diacetate Δ	71-48-7	ND
43	2-Methoxyethanol (ME) *	109-86-4	ND
44	2-Ethoxyethanol (EE) *	110-80-5	ND
45	Chromium trioxide Δ	1333-82-0	ND
46	Oligomers of chromic acid and dichromic acid Δ	7738-94-5, 13530-68-2	ND
47	Strontium chromate Δ	7789-06-2	ND
48	2-ethoxyethyl acetate(EEA)	111-15-9	ND
49	Hydrazine	302-01-2, 7803-57-8	ND

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No.	Substance of Very High Concern	CAS No.	Result (%)
			01
50	1-methyl-2-pyrrolidone(MP) *	872-50-4	ND
51	1,2,3-trichloropropane(TCP) *	96-18-4	ND
52	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	ND
53	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND
54	Dichromium tris(chromate) Δ	24613-89-6	ND
55	Potassium hydroxyoctaoxodi zincatedichromate Δ	11103-86-9	ND
56	Pentazinc chromate octahydroxide Δ	49663-84-5	ND
57	Formaldehyde, oligomeric reaction products with aniline *	25214-70-4	ND
58	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND
59	2-Methoxyaniline(MA)	90-04-0	ND
60	4-(1,1,3,3-tetramethylbutyl)phenol (4-tert-Octylphenol)	140-66-9	ND
61	1,2-Dichloroethane (DCE)	107-06-2	ND
62	Bis(2-methoxy ethyl)ether (BMEE)	111-96-6	ND
63	Arsenic acid Δ	7778-39-4	ND
64	Calcium arsenate Δ	7778-44-1	ND
65	Trilead diarsenate Δ	3687-31-8	ND
66	N,N-Dimethylacetamide (DMAC)	127-19-5	ND
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	ND
68	Phenolphthalein	77-09-8	ND
69	Lead azide Δ	13424-46-9	ND
70	Lead styphnate Δ	15245-44-0	ND
71	lead dipicrate Δ	6477-64-1	ND
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	ND
73	Ethylene glycol dimethyl ether (EGDME)	110-71-4	ND
74	Diboron trioxideΔ	1303-86-2	ND

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No.	Substance of Very High Concern	CAS No.	Result (%)
			01
75	Formamide	75-12-7	ND
76	Lead(II) bis(methanesulfonate) Δ	17570-76-2	ND
77	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (TGIC)	2451-62-9	ND
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	ND
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	ND
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	ND
81	[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	ND
82	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	ND
83	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	ND
84	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	ND

Remark:

- ND= Not detected (less than report limit).
- report limit = 0.01%.
- % = percentage by weight.
- SVHC = Substance Of Very High Concern.
- Δ = According to currently available analytical techniques, Concentration of substance is converted from the concentration of specific heavy metal or inorganic element (As, Cr⁶⁺, Pb, Al, Si, Zr, B/H₃BO₃, Co, Mo, Sr, Zn).
- ※ = The testing item marked with ※ and Arsenic (As), Hexavalent Chromium (Cr⁶⁺), Lead (Pb), Cobalt (Co), Molybdenum (Mo), Strontium (Sr) are accredited by the CNAS.

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- * = Concentration of substance is converted from the concentration of 4,4'-diaminodiphenylmethane (4,4'-MDA). According to the Annex XV dossiers, 4,4'-MDA is a major constituent (47%~65%,w/w) of the UVCB substance formaldehyde, oligomeric reaction products with aniline.
- #1 Hexabromocyclododecane(HBCDD), and all major diastereoisomers identified:(α , β , γ - HBCDD).
- #2 Calculated concentration based on the identified tributyltin, TBT results.
- #3 Calculated concentration based on the total concentration of the identified polyaromatic hydrocarbons (PAHs), aromatic hydrocarbons and heterocycles results. Identity and ratio of each substance shall refer to the respective Annex XV dossiers submitted to the ECHA.
- #4 Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008, and fulfil the three following conditions:
 - a) Al_2O_3 and SiO_2 are the main components present within variable concentration ranges.
 - b) Fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometers (μm).
 - c) Alkaline oxide and alkali earth oxide($Na_2O+K_2O+CaO+MgO+BaO$) content less or equal to 18%w/w.
- #5 Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008, and fulfil the three following conditions:
 - a) Al_2O_3 , SiO_2 and ZrO_2 , are the main components present within variable concentration Ranges
 - b) Fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometers (μm).
 - c) Alkaline oxide and alkali earth oxide($Na_2O+K_2O+CaO+MgO+BaO$) content less or equal to 18%w/w.

Note:

- Substances of very high concern (SVHC) are classified as:
 - Carcinogenic, mutagenic or toxic to reproduction (CMR);
 - Persistent, bio-accumulative and toxic (PBT);
 - Very persistent and very bio-accumulative (vPvB);
- The SVHC proposed list is under evaluation by ECHA and may subject to change in the future.
More information please refer to:
http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp#download
- 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 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.

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**Test method:****Reference to**

- 1). US EPA 3550C:2007 Ultrasonic extraction & US EPA 8270D:2007 Semivolatile organic compounds by gas Chromatography / mass Spectrometry (GC/MS).
- 2). US EPA 3540C:1996 Soxhlet Extraction & US EPA 8270D:2007 Semivolatile organic compounds by gas chromatography/mass spectrometry (GC/MS).
- 3). US EPA 3060A:1996 Alkaline Digestion for Hexavalent Chromium US EPA 7196A:1992 Chromium, Hexavalent (colorimetric) (UV-VIS Method).
- 4). ISO3613:2000 Chromate conversion coatings on zinc, calcium, aluminum-zinc alloys and zinc-aluminum alloys - Test methods: Determination of hexavalent chromium content of colored chromate coating (UV-VIS method).
- 5). US EPA 3052:1996 Microwave assisted acid digestion of siliceous and organically based matrices & US EPA 6010C:2007 Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES).
- 6). US EPA 3050B:1996 acid digestion of sediments, sludges, and soils & US EPA 6010C:2007 Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES).
- 7). In-house method for testing boron compounds by water extraction.
- 8). US EPA 8260C:2006 Head-Space GC method, Volatile organic compounds by Head-Space gas Chromatography / mass Spectrometry (HS/GC/MS).
- 9). US EPA 8061:1996 Phthalate Esters by Gas Chromatography with Electron Capture Detection(GC/ECD)
- 10). BS EN 14362-1:2003 Textiles – Methods for the determination of certain aromatic amines derived from Azo colorants- Part 1: Detection of the use of certain Azo colorants accessible without extraction
- 11). BS EN 14362-2:2003 Textiles – Methods for the determination of certain aromatic amines derived from azo colorants- Part 2: Detection of the use of certain Azo colorants accessible by extracting the fibres.
- 12). US EPA 5021:1996 Volatile organic compounds in solid and other solid sample matrices using Equilibrium headspace analysis.
- 13). US EPA 3550C(2007) & EPA 8321B(2007), determined by High Performance Liquid Chromatography (HPLC)



Test Report

Number: LCZC13010653-E

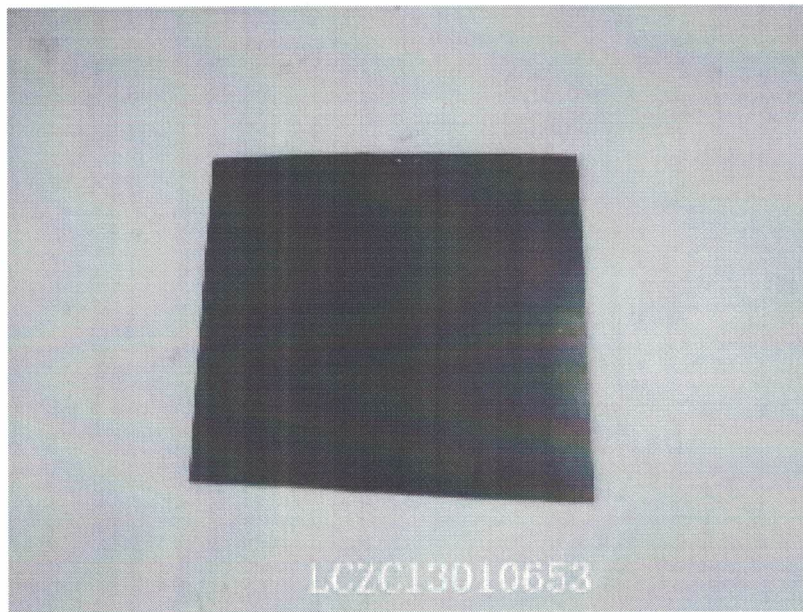
Date: Jan. 28, 2013

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2 TESTED COMPONENTS

01 Black rubber

Photo of the Sample





End of Report