

TEST REPORT

REPORT NUMBER : TURT180037949

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SAMPLE DESCRIPTION

Sample 1: One sample of NP 200 Coated Krome Paperboard

Sample 2: One sample of NP 225 Coated Krome Paperboard

Sample 3: One sample of NP 300 Coated Krome Paperboard

Sample 4: One sample of LT 300 Coated Krome Paperboard

Sample 5: One sample of EP 300 Coated Krome Paperboard

DATE IN : 23 February, 2018 (10:08)

DATE OUT : 12 March , 2018

REQUEST : SVHC Test regarding REACH Regulation (EC) No. 1907/2006 for updated SVHC List of 15th January, 2018

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180037949

Test Method	Result	Requirements
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Sample:

Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
				
Weight: 1.04 gr	Weight: 1.12 gr	Weight: 1.24 gr	Weight: 1.08 gr	Weight: 1.19 gr

Tested Component Parts:

CS=Combined Sample

NO	Description
1	CS1 Combined sample of NP 200 Coated Krome Paperboard, NP 225 Coated Krome Paperboard, NP 300 Coated Krome Paperboard, LT 300 Coated Krome Paperboard, EP 300 Coated Krome Paperboard

Test Method	Result	Requirements
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(I) SVHC Test Results

(a) The First List (15 SVHC Released in Oct, 2008)

Chemical Substance	CAS-No.	RESULTS (% w/w)
		CS1
Cobalt Dichloride Δ	7646-79-9	<0.1%
Diarsenic Pentaoxide Δ	1303-28-2	<0.1%
Diarsenic Trioxide Δ	1327-53-3	<0.1%
Lead Hydrogen Arsenate Δ	7784-40-9	<0.1%
Triethyl Arsenate Δ	15606-95-8	<0.1%
Sodium Dichromate Δ	7789-12-0, 10588-01-9	<0.1%
Bis (Tributyltin) Oxide (TBTO) Δ	56-35-9	<0.1%
Anthracene	120-12-7	<0.1%
4,4'-Diaminodiphenylmethane (MDA)	101-77-9	<0.1%
Hexabromocyclododecane (HBCDD) and All Major Diastereoisomers Identified (α-HBCDD, β-HBCDD, γ-HBCDD)	25637-99-4 and 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	<0.1%
5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	81-15-2	<0.1%
Bis (2-Ethylhexyl) Phthalate (DEHP)	117-81-7	<0.1%
Dibutyl Phthalate (DBP)	84-74-2	<0.1%
Benzyl Butyl Phthalate (BBP)	85-68-7	<0.1%
Short Chain Chlorinated Paraffins (C ₁₀₋₁₃)	85535-84-8	<0.1%

(b) The Second List (13 SVHC Release in Jan, 2010 and Mar, 2010)

Chemical Substance	CAS-No.	RESULTS (% w/w)
		CS1
Lead Chromate Δ	7758-97-6	<0.1%
Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) Δ	12656-85-8	<0.1%
Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) Δ	1344-37-2	<0.1%
Tris (2-Chloroethyl) Phosphate	115-96-8	<0.1%
2,4-Dinitrotoluene	121-14-2	<0.1%
Diisobutyl Phthalate (DIBP)	84-69-5	<0.1%
Coal Tar Pitch, High Temperature	65996-93-2	<0.1%
Anthracene Oil	90640-80-5	<0.1%
Anthracene Oil, Anthracene Paste, Distn. Lights	91995-17-4	<0.1%
Anthracene Oil, Anthracene Paste, Anthracene Fraction	91995-15-2	<0.1%
Anthracene Oil, Anthracene-low	90640-82-7	<0.1%
Anthracene Oil, Anthracene Paste	90640-81-6	<0.1%
Acrylamide	79-06-1	<0.1%

Test Method	Result	Requirements
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(c) The Third List (8 SVHC Release in Jun,2010)

Chemical Substance	CAS-No.	RESULTS (% w/w)
		CS1
Boric Acid Δ	10043-35-3, 11113-50-1	<0.1%
Disodium Tetraborate, Anhydrous Δ	1330-43-4, 12179-04-3, 1303-96-4	<0.1%
Tetraboron Disodium Heptaoxide, Hydrate Δ	12267-73-1	<0.1%
Sodium Chromate Δ	7775-11-3	<0.1%
Potassium Chromate Δ	7789-00-6	<0.1%
Ammonium Dichromate Δ	7789-09-5	<0.1%
Potassium Dichromate Δ	7778-50-9	<0.1%
Trichloroethylene	79-01-6	<0.1%

(d) The Fourth List (8 SVHC Release in Dec,2010)

Chemical Substance	CAS-No.	RESULTS (% w/w)
		CS1
2-Methoxyethanol	109-86-4	<0.1%
2-Ethoxyethanol	110-80-5	<0.1%
Cobalt Sulphate Δ	10124-43-3	<0.1%
Cobalt Dinitrate Δ	10141-05-6	<0.1%
Cobalt Carbonate Δ	513-79-1	<0.1%
Cobalt Diacetate Δ	71-48-7	<0.1%
Chromium Trioxide Δ	1333-82-0	<0.1%
Chromic Acid Δ Dichromic Acid Δ Oligomers of Chromic Acid and Dichromic Acid Δ	7738-94-5 13530-68-2 --	<0.1%

(e) The Fifth List (7 SVHC Release in Jun, 2011)

Chemical Substance	CAS-No.	RESULTS (% w/w)
		CS1
Strontium ChromateΔ	7789-06-2	<0.1%
2-ethoxyethyl acetate (2-EEA)	111-15-9	<0.1%
1,2-Benzenedicarboxylic acid, di-C ₇₋₁₁ - branched and linear alkyl esters (DHNUP)	68515-42-4	<0.1%
Hydrazine	7803-57-8 302-01-2	<0.1%
1-methyl-2-pyrrolidone	872-50-4	<0.1%
1,2,3-trichloropropane	96-18-4	<0.1%
1,2-Benzenedicarboxylic acid, di-C ₆₋₈ - branched alkyl esters, C ₇ -rich (DIHP)	71888-89-6	<0.1%

Test Method	Result	Requirements
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(f) The Sixth List (20 SVHC Release in Dec, 2011)

Chemical Substance	CAS-No.	RESULTS (% w/w)
		CS1
Lead dipicrate Δ	6477-64-1	<0.1%
Lead styphnate Δ	15245-44-0	<0.1%
Lead azide; Lead diazide Δ	13424-46-9	<0.1%
Phenolphthalein	77-09-8	<0.1%
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	<0.1%
N,N-dimethylacetamide (DMAC)	127-19-5	<0.1%
Trilead diarsenate Δ	3687-31-8	<0.1%
Calcium arsenate Δ	7778-44-1	<0.1%
Arsenic acid Δ	7778-39-4	<0.1%
Bis(2-methoxyethyl) ether	111-96-6	<0.1%
1,2-Dichloroethane	107-06-2	<0.1%
4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert- Octylphenol)	140-66-9	<0.1%
2-Methoxyaniline; o-Anisidine	90-04-0	<0.1%
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	<0.1%
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	<0.1%
Pentazinc chromate octahydroxide Δ	49663-84-5	<0.1%
Potassium hydroxyoctaoxodizincate di- chromate Δ	11103-86-9	<0.1%
Dichromium tris(chromate) Δ	24613-89-6	<0.1%
Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017-00-8)	<0.1%
Zirconia Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017-00-8)	<0.1%

Test Method	Result	Requirements
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(g) The Seventh List (13 SVHC Release in Jun, 2012)

Chemical Substance	CAS-No.	RESULTS (% w/w)
		CS1
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	<0.1%
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	<0.1%
Diboron trioxide Δ	1303-86-2	<0.1%
Formamide	75-12-7	<0.1%
Lead(II) bis(methanesulfonate) Δ	17570-76-2	<0.1%
TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	<0.1%
β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)- trione)	59653-74-6	<0.1%
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	<0.1%
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	<0.1%
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	<0.1%
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	<0.1%
α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	<0.1%
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	<0.1%

(h) The Eighth List (54 SVHC Release in Dec, 2012)

Chemical Substance	CAS-No.	RESULTS (% w/w)
		CS1
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	<0.1%
Pentacosaflluorotridecanoic acid	72629-94-8	<0.1%
Tricosaflluorododecanoic acid	307-55-1	<0.1%
Henicosaflluoroundecanoic acid	2058-94-8	<0.1%
Heptacosaflluorotetradecanoic acid	376-06-7	<0.1%
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	<0.1%
Cyclohexane-1,2-dicarboxylic anhydride [1]		
cis-cyclohexane-1,2-dicarboxylic anhydride [2]	85-42-7	<0.1%
trans-cyclohexane-1,2-dicarboxylic anhydride [3]	13149-00-3	<0.1%

Test Method	Result	Requirements
[The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].	14166-21-3	
Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0 19438-60-9 48122-14-1 57110-29-9	<0.1%
4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	--	<0.1%
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	--	<0.1%
Methoxyacetic acid	625-45-6	<0.1%
N,N-dimethylformamide	68-12-2	<0.1%
Dibutyltin dichloride (DBTC) Δ	683-18-1	<0.1%
Lead monoxide (Lead oxide) Δ	1317-36-8	<0.1%
Orange lead (Lead tetroxide) Δ	1314-41-6	<0.1%
Lead bis(tetrafluoroborate) Δ	13814-96-5	<0.1%
Trilead bis(carbonate)dihydroxide Δ	1319-46-6	<0.1%
Lead titanium trioxideΔ	12060-00-3	<0.1%
Lead titanium zirconium oxideΔ	12626-81-2	<0.1%
Silicic acid, lead salt Δ	11120-22-2	<0.1%
Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead- dopedΔ [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8	<0.1%
1-bromopropane (n-propyl bromide)	106-94-5	<0.1%
Methyloxirane (Propylene oxide)	75-56-9	<0.1%
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	<0.1%
Diisopentylphthalate (DIPP)	605-50-5	<0.1%
N-pentyl-isopentylphthalate	776297-69-9	<0.1%
1,2-diethoxyethane	629-14-1	<0.1%
Acetic acid, lead salt, basicΔ	51404-69-4	<0.1%
Lead oxide sulfateΔ	12036-76-9	<0.1%
[Phthalato(2-)]dioxotrileadΔ	69011-06-9	<0.1%
Dioxobis(stearato)trileadΔ	12578-12-0	<0.1%

Test Method	Result	Requirements
Fatty acids, C16-18, lead salts Δ	91031-62-8	<0.1%
Lead cyanamide Δ	20837-86-9	<0.1%
Lead dinitrate Δ	10099-74-8	<0.1%
Pentalead tetraoxide sulphate Δ	12065-90-6	<0.1%
Pyrochlore, antimony lead yellow Δ	8012-00-8	<0.1%
Sulfurous acid, lead salt, dibasic Δ	62229-08-7	<0.1%
Tetraethyllead Δ	78-00-2	<0.1%
Tetralead trioxide sulphate Δ	12202-17-4	<0.1%
Trilead dioxide phosphonate Δ	12141-20-7	<0.1%
Furan	110-00-9	<0.1%
Diethyl sulphate	64-67-5	<0.1%
Dimethyl sulphate	77-78-1	<0.1%
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3- oxazolidine	143860-04-2	<0.1%
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	<0.1%
4,4'-methylenedi-o-toluidine	838-88-0	<0.1%
4,4'-oxydianiline and its salts	101-80-4	<0.1%
4-aminoazobenzene	60-09-3	<0.1%
4-methyl-m-phenylenediamine (toluene-2,4- diamine)	95-80-7	<0.1%
6-methoxy-m-toluidine (p-cresidine)	120-71-8	<0.1%
Biphenyl-4-ylamine	92-67-1	<0.1%
o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3	<0.1%
o-toluidine	95-53-4	<0.1%
N-methylacetamide	79-16-3	<0.1%

(i) The ninth List (6 SVHC Release in Jun, 2013)

Chemical Substance	CAS-No.	RESULTS (% w/w)
		CS1
Cadmium Δ	7440-43-9	<0.1%
Cadmium oxide Δ	1306-19-0	<0.1%
Dipentyl phthalate (DPP)	131-18-0	<0.1%
4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	--	<0.1%
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	<0.1%
Pentadecafluorooctanoic acid (PFOA)	335-67-1	<0.1%

Test Method	Result	Requirements
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(j) The tenth List (7 SVHC Release in Dec, 2013)

Chemical Substance	CAS-No.	RESULTS (% w/w)
		CS1
Cadmium sulphide Δ	1306-23-6	<0.1%
Disodium 3,3'-[[1,1'-biphenyl]-4,4'- diylbis(azo)]bis(4-aminonaphthalene-1- sulphonate) (C.I. Direct Red 28)	573-58-0	<0.1%
Disodium 4-amino-3-[[4'-[(2,4- diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5- hydroxy-6-(phenylazo)naphthalene-2,7- disulphonate (C.I. Direct Black 38)	1937-37-7	<0.1%
Dihexyl phthalate	84-75-3	<0.1%
Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	<0.1%
Lead di(acetate) Δ	301-04-2	<0.1%
Trixylyl phosphate	25155-23-1	<0.1%

(k) The eleventh List (4 SVHC Release in Jun, 2014)

Chemical Substance	CAS-No.	RESULTS (% w/w)
		CS1
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	<0.1%
Cadmium chloride Δ	10108-64-2	<0.1%
Sodium perborate; Perboric acid, sodium salt Δ	--	<0.1%
Sodium peroxometaborate Δ	7632-04-4	<0.1%

Test Method	Result	Requirements
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(l) The twelfth List (6 SVHC Release in December, 2014)

Chemical Substance	CAS-No.	RESULTS (% w/w)
		CS1
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	<0.1%
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	<0.1%
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	<0.1%
Cadmium fluoride Δ	7790-79-6	<0.1%
Cadmium sulphate Δ	10124-36-4; 31119-53-6	<0.1%
Reaction mass of 2-ethylhexyl 10-ethyl-4,4- dioctyl-7-oxo-8-oxa-3,5-dithia-4- stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4- stannatetradecanoate (reaction mass of DOTE and MOTE)	--	<0.1%

(m) The thirteenth List (2 SVHC Release in June, 2015)

Chemical Substance	CAS-No.	RESULTS (% w/w)
		CS1
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with \geq 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5; 68648-93-1	<0.1%
5-Sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-Sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	--	<0.1%

Test Method	Result	Requirements
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(n) The fourteenth List (5 SVHC Release in December, 2015)

Chemical Substance	CAS-No.	RESULTS (% w/w)
		CS1
1,3-Propanesultone	1120-71-4	<0.1%
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)	3864-99-1	<0.1%
2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	<0.1%
Nitrobenzene	98-95-3	<0.1%
Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 ; 21049-39-8 ; 4149-60-4	<0.1%

(o) The fifteenth List (1 SVHC Release in June, 2016)

Chemical Substance	CAS-No.	RESULTS (% w/w)
		Sample
Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	<0.1%

(p) The Sixteenth List (4 SVHC Release in January, 2017)

Chemical Substance	CAS-No.	RESULTS (% w/w)
		CS1
4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	<0.1%
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	<0.1%
p-(1,1-dimethylpropyl)phenol	80-46-6	<0.1%
4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	<0.1%

(r) The Seventeenth List (1 SVHC Release in July, 2017)

Chemical Substance	CAS-No.	RESULTS (% w/w)
		Sample
Perfluorohexane-1-sulfonic acid and its salts (PFHxS)	-	<0.1%

Test Method	Result	Requirements
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(s) The Eighteenth List (7 SVHC Release in January, 2018)

Chemical Substance	CAS-No.	RESULTS (% w/w)
		Sample
Benz[a]anthracene	56-55-3, 1718-53-2	<0.1%
Cadmium carbonate	513-78-0	<0.1%
Cadmium hydroxide	21041-95-2	<0.1%
Cadmium nitrate	10022-68-1, 10325-94-7	<0.1%
Chrysene	218-01-9, 1719-03-5	<0.1%
Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octa deca-7,15-diene ("Dechlorane Plus" TM)	-	<0.1%
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	<0.1%

Test Method	Result	Requirements
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Remarks:

- SVHC = Substance of very high concern
- ND = Not detected (the result is less than the reporting limit)
- Δ = Determination was based on elemental analysis. The content was calculated based on assumption of worstcase.

Reporting limit=0.010% (raw material)

SVHC = Substance of very high concern

ND = Not detected (the result is less than the reporting limit)

Reporting limit = Quantitation limit of analyte in sample

Δ = Determination was based on elemental analysis. The content was calculated based on assumption of worst-case.

As applicant's requirement, materials were screened in composite testing and results were reported in proportion with the whole product weight.

Notes:

1. Substances of very high concern (SVHC) are classified as:

- a. Carcinogenic, mutagenic or toxic to reproduction category 1 (proven on humans) and category 2 (proven on animals)
- b. Persistent, bioaccumulative and toxic chemicals (PBT)
- c. Very persistent and very bioaccumulative chemicals (vPvB)
- d. Other similar substances such as endocrine disrupters

2. If the imported or manufactured volume of each individual SVHC in article is more than 0.1% (w/w) and if it exceeds 1 tonne per year across all product ranges, then importer or manufacturer require notification to the European Chemical Agency (ECHA). For substances included in the Candidate List on or after 1 December 2010, the notifications have to be submitted no later than 6 months after the inclusion. The following information has to be submitted for notification:

- a. Identification of the registrant and the substance
- b. Classification and labelling of the substance
- c. Description of use of the substance and the article
- d. Registration number, if available
- e. Tonnage range

3. As per article 31 of regulation (EC) No. 1907/2006 (REACH), suppliers of mixtures not classified as dangerous according to directive 1999/45/EC have to provide the recipients, at their request, with a safety data sheet if the mixtures contain at least one substance on the SVHC candidate list and its individual concentration is 0.1%(w/w) or above for non-gaseous preparations.

END OF TEST REPORT