

TEST REPORT

APPLICANT : LG HAUSYS, LTD.

REPORT NO. : B270-14-02156

SAMPLE RECEIVED DATE : 2014-07-29

TEST STARTED DATE : 2014-07-29

REPORT ISSUED DATE : 2014-08-11

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SAMPLE DESCRIPTION : TWO(2) SUBMITTED SAMPLES SAID TO BE #1 LG(ATC951G)(CLEAR) AND #2 LG(ATC951G)(WHITE).

TEST CONDUCTED : AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE SEE ATTACHED PAGES.

PREPARED AND CHECKED BY
FOR FITISANG-KI LIM
QUALITY MANAGERAUTHORIZED BY
FOR FITIMOON-OK NOH
PRESIDENT

※ Report Verification No.: LZ9A-JVEP-AMHV ※

(You can see the authenticity of your test report through the above "Report Verification No." at FITI homepage.)

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TEST CONDUCTED
TEST RESULT

CONCLUSION :			
SAMPLE(S) :		#1	#2
SUBSTANCES OF VERY HIGH CONCERN (SVHC) SCREENING BASED ON THE CANDIDATE LIST PUBLISHED BY EUROPEAN CHEMICALS AGENCY (ECHA) ON OCTOBER 28, 2008 REGARDING REGULATION (EC) NO 1907/2006 CONCERNING THE REACH.		M	M
SUBSTANCES OF VERY HIGH CONCERN (SVHC) SCREENING BASED ON THE CANDIDATE LIST PUBLISHED BY EUROPEAN CHEMICALS AGENCY (ECHA) ON JANUARY 13, 2010 (REVISED MARCH 30, 2010) REGARDING REGULATION (EC) NO 1907/2006 CONCERNING THE REACH.		M	M
SUBSTANCES OF VERY HIGH CONCERN (SVHC) SCREENING BASED ON THE CANDIDATE LIST PUBLISHED BY EUROPEAN CHEMICALS AGENCY (ECHA) ON JUNE 18, 2010 REGARDING REGULATION (EC) NO 1907/2006 CONCERNING THE REACH.		M	M
SUBSTANCES OF VERY HIGH CONCERN (SVHC) SCREENING BASED ON THE CANDIDATE LIST PUBLISHED BY EUROPEAN CHEMICALS AGENCY (ECHA) ON DECEMBER 15, 2010 REGARDING REGULATION (EC) NO 1907/2006 CONCERNING THE REACH.		M	M
SUBSTANCES OF VERY HIGH CONCERN (SVHC) SCREENING BASED ON THE CANDIDATE LIST PUBLISHED BY EUROPEAN CHEMICALS AGENCY (ECHA) ON JUNE 30, 2011 REGARDING REGULATION (EC) NO 1907/2006 CONCERNING THE REACH.		M	M
SUBSTANCES OF VERY HIGH CONCERN (SVHC) SCREENING BASED ON THE CANDIDATE LIST PUBLISHED BY EUROPEAN CHEMICALS AGENCY (ECHA) ON DECEMBER 19, 2011 REGARDING REGULATION (EC) NO 1907/2006 CONCERNING THE REACH.		M	M
SUBSTANCES OF VERY HIGH CONCERN (SVHC) SCREENING BASED ON THE CANDIDATE LIST PUBLISHED BY EUROPEAN CHEMICALS AGENCY (ECHA) ON JUNE 18, 2012 REGARDING REGULATION (EC) NO 1907/2006 CONCERNING THE REACH.		M	M
SUBSTANCES OF VERY HIGH CONCERN (SVHC) SCREENING BASED ON THE CANDIDATE LIST PUBLISHED BY EUROPEAN CHEMICALS AGENCY (ECHA) ON DECEMBER 19, 2012 REGARDING REGULATION (EC) NO 1907/2006 CONCERNING THE REACH.		M	M
SUBSTANCES OF VERY HIGH CONCERN (SVHC) SCREENING BASED ON THE CANDIDATE LIST PUBLISHED BY EUROPEAN CHEMICALS AGENCY (ECHA) ON JUNE 20, 2013 REGARDING REGULATION (EC) NO 1907/2006 CONCERNING THE REACH.		M	M
SUBSTANCES OF VERY HIGH CONCERN (SVHC) SCREENING BASED ON THE CANDIDATE LIST PUBLISHED BY EUROPEAN CHEMICALS AGENCY (ECHA) ON DECEMBER 16, 2013 REGARDING REGULATION (EC) NO 1907/2006 CONCERNING THE REACH.		M	M
SUBSTANCES OF VERY HIGH CONCERN (SVHC) SCREENING BASED ON THE CANDIDATE LIST PUBLISHED BY EUROPEAN CHEMICALS AGENCY (ECHA) ON JUNE 16, 2014 REGARDING REGULATION (EC) NO 1907/2006 CONCERNING THE REACH.		M	M

ABBREVIATION : M = MEET THE CUSTOMER'S REQUIREMENT
F = BELOW THE CUSTOMER'S REQUIREMENT

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TEST SUMMARY : SUBSTANCES OF VERY HIGH CONCERN (SVHC) SCREENING BASED ON THE CANDIDATE LIST PUBLISHED BY EUROPEAN CHEMICALS AGENCY (ECHA) ON OCTOBER 28, 2008 REGARDING REGULATION (EC) NO 1907/2006 CONCERNING THE REACH.

SUBSTANCE	CAS NO.	RESULT(%)		LIMIT(%)
		#1	#2	
* COBALT DICHLORIDE	7646-79-9	<0.05	<0.05	0.1
# TRIETHYL ARSENATE	15606-95-8	<0.05	<0.05	0.1
# DIARSENIC PENTAOXIDE	1303-28-2	<0.05	<0.05	0.1
# DIARSENIC TRIOXIDE	1327-53-3	<0.05	<0.05	0.1
# SODIUM DICHROMATE	7789-12-0 10558-01-9	<0.05	<0.05	0.1
# LEAD HYDROGEN ARSENATE	7784-40-9	<0.05	<0.05	0.1
DIBUTYL PHTHALATE (DBP)	84-74-2	<0.05	<0.05	0.1
BENZYL BUTYL PHTHALATE (BBP)	85-68-7	<0.05	<0.05	0.1
BIS(2-ETHYLHEXYL)-PHTHALATE (DEHP)	117-81-7	<0.05	<0.05	0.1
MUSK XYLENE	81-15-2	<0.05	<0.05	0.1
ANTHRACENE	120-12-7	<0.05	<0.05	0.1
4,4'-DIAMINODIPHENYLMETHANE	101-77-9	<0.05	<0.05	0.1
HEXABROMOCYCLODODECA (HBCD)	3194-55-6	<0.05	<0.05	0.1
BIS(TRIBUTYLTIN)OXIDE	56-35-9	<0.05	<0.05	0.1
C10-C13 CHLOROPARAFFINES	85535-84-8	<0.05	<0.05	0.1

TEST METHOD : THE SAMPLE WAS EXTRACTED WITH ORGANIC SOLVENT AND DIGESTED, WITH REFERENCE TO US EPA 3540C, US EPA 8270D, US EPA 3051A AND ANALYZED BY GAS CHROMATOGRAPH MASS SPECTROMETER, GAS CHROMATOGRAPH ELECTRON CAPTURE DETECTOR AND INDUCTIVELY COUPLED PLASMA-OPTICAL EMISSION SPECTROMETER.

REMARK : * = CALCULATED CONCENTRATION OF COBALT DICHLORIDE IS BASED ON THE IDENTIFIED HEAVY METAL AND ANION RESULT. IDENTITY OF ABOVE METAL SUBSTANCES PRESENT IN THE ARTICLE HAS TO BE FURTHER CONFIRMED.

= CALCULATED CONCENTRATION OF DIARSENIC PENTAOXIDE, DIARSENIC TRIOXIDE, SODIUM DICHROMATE, DIHYDRATE, LEAD HYDROGEN ARSENATE AND TRIETHYL ARSENATE ARE BASED ON THE IDENTIFIED HEAVY METAL RESULT. IDENTITY OF ABOVE METAL SUBSTANCES PRESENT IN THE ARTICLE HAS TO BE FURTHER CONFIRMED.

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TEST CONDUCTED
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TEST SUMMARY : SUBSTANCES OF VERY HIGH CONCERN (SVHC) SCREENING BASED ON THE CANDIDATE LIST PUBLISHED BY EUROPEAN CHEMICALS AGENCY (ECHA) ON JANUARY 13, 2010 (REVISED MARCH 30, 2010) REGARDING REGULATION (EC) NO 1907/2006 CONCERNING THE REACH.

SUBSTANCE	CAS NO.	RESULT(%)		LIMIT(%)
		#1	#2	
2,4-DINITROTOLUENE	121-14-2	<0.05	<0.05	0.1
* ANTHRACENE OIL	90640-80-5	<0.05	<0.05	0.1
* ANTHRACENE OIL, ANTHRACENE PASTE, DISTN. LIGHTS	91995-17-4	<0.05	<0.05	0.1
* ANTHRACENE OIL, ANTHRACENE PASTE, ANTHRACENE FRACTION	91995-15-2	<0.05	<0.05	0.1
* ANTHRACENE OIL, ANTHRACENE -LOW	90640-82-7	<0.05	<0.05	0.1
* ANTHRACENE OIL, ANTHRACENE PASTE	90640-81-6	<0.05	<0.05	0.1
DIISOBUTYL PHTHALATE	84-69-5	<0.05	<0.05	0.1
# ALUMINOSILICATE, REFRACTORY CERAMIC FIBRES	650-017-00-8	<0.05	<0.05	0.1
# ZIRCONIA ALUMINOSILICATE, REFRACTORY CERAMIC FIBRES	650-017-00-8	<0.05	<0.05	0.1
# LEAD CHROMATE	7758-97-6	<0.05	<0.05	0.1
# LEAD CHROMATE MOLYBDATE SULFATE RED(C.I. PIGMENT RED 104)	12656-85-8	<0.05	<0.05	0.1
# LEAD SULFOCHROMATE YELLOW (C.I. PIGMENT YELLOW 34)	1344-37-2	<0.05	<0.05	0.1
TRIS(2-CHLOROETHYL) PHOSPHATE	115-96-8	<0.05	<0.05	0.1
COAL TAR PITCH, HIGH TEMPERATURE	65996-93-2	<0.05	<0.05	0.1
ACRYLAMIDE	79-06-1	<0.05	<0.05	0.1

TEST METHOD : THE SAMPLE WAS EXTRACTED WITH ORGANIC SOLVENT AND DIGESTED, WITH REFERENCE TO US EPA 3540C, US EPA 8270D, US EPA 3051A AND ANALYZED BY GAS CHROMATOGRAPH MASS SPECTROMETER AND INDUCTIVELY COUPLED PLASMA-OPTICAL EMISSION SPECTROMETER.

REMARK : * = THE ANTHRACENE OIL DERIVATES ARE COMPLEX AND CONSISTS OF VARIABLE COMPOSITIONS OF POLYCYCLIC AROMATIC HYDROCARBONS (PAHS). THE AMOUNT OF ANTHRACENE OIL DERIVATES ARE CALCULATES BY THE COMPOSITION OF PAHS FOUND IN SAMPLE.

= THE CONCENTRATION OF ALUMINOSILICATE, REFRACTORY CERAMIC FIBERS; ZIRCONIA ALUMINOSILICATE, REFRACTORY CERAMIC FIBERS; LEAD CHROMAT; LEAD CHROMATE MOLYBDATE SULFATE RED (C.I. PIGMENT RED 104); ZIRCONIA ALUMINOSILICATE, REFRACTORY CERAMIC FIBERS ; COBALT DICHLORIDE; DIARSENIC PENTAOXIDE; DIARSENIC TRIOXIDE; SODIUM DICHROMATE; LEAD HYDROGEN ARSENATE AND TRIETHYL ARSENATE ARE CALCULATED AS SELECTED ELEMENT(S).

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SUBSTANCE	CAS NO.	RESULT(%)		LIMIT(%)
		#1	#2	
TRICHLOROETHYLENE	79-01-06	<0.05	<0.05	0.1
# BORIC ACID	10043-35-3 11113-50-1	<0.05	<0.05	0.1
# DISODIUM TETRABORATE, ANHYDROUS	1303-96-4 1330-43-4 12179-04-3	<0.05	<0.05	0.1
# TETRABORON DISODIUM HEPTAOXIDE, HYDRATE	12267-73-1	<0.05	<0.05	0.1
# SODIUM CHROMATE	7775-11-3	<0.05	<0.05	0.1
# POTASSIUM CHROMATE	7789-00-6	<0.05	<0.05	0.1
# AMMONIUM DICHROMATE	7789-09-5	<0.05	<0.05	0.1
# POTASSIUM DICHROMATE	7778-50-9	<0.05	<0.05	0.1

TEST METHOD : THE SAMPLE WAS EXTRACTED WITH ORGANIC SOLVENT AND DIGESTED, WITH REFERENCE TO US EPA 3540C, US EPA 8270D, US EPA 3051A AND ANALYZED BY GAS CHROMATOGRAPH MASS SPECTROMETER AND INDUCTIVELY COUPLED PLASMA-OPTICAL EMISSION SPECTROMETER.

REMARK : # = THE CONCENTRATION OF BORIC ACID, DISODIUM TETRABORATE, ANHYDROUS, TETRABORON DISODIUM HEPTAOXIDE, HYDRATE, SODIUM CHROMATE, POTASSIUM CHROMATE, AMMONIUM DICHROMATE, POTASSIUM DICHROMATE ARE CALCULATED AS SELECTED ELEMENT(S).

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SUBSTANCE	CAS NO.	RESULT (%)		LIMIT (%)
		#1	#2	
* COBALT(II) SULPHATE	10124-43-3	<0.05	<0.05	0.1
* COBALT(II) DINITRATE	10141-05-6	<0.05	<0.05	0.1
* COBALT(II) CARBONATE	513-79-1	<0.05	<0.05	0.1
* COBALT(II) DIACETATE	71-48-7	<0.05	<0.05	0.1
2-METHOXYETHANOL	109-86-4	<0.05	<0.05	0.1
2-ETHOXYETHANOL	110-80-5	<0.05	<0.05	0.1
# CHROMIUM TRIOXIDE	1333-82-0	<0.05	<0.05	0.1
※ CHROMIC ACID, OLIGOMERS OF CHROMIC ACID AND DICHROMIC ACID, DICHROMIC ACID	7738-94-5 - 13530-68-2	<0.05	<0.05	0.1

TEST METHOD : THE SAMPLE WAS EXTRACTED WITH ORGANIC SOLVENT AND DIGESTED, WITH REFERENCE TO US EPA 3540C, US EPA 8270D, US EPA 3051A AND ANALYZED BY GAS CHROMATOGRAPH MASS SPECTROMETER, ION CHROMATOGRAPHY AND INDUCTIVELY COUPLED PLASMA-OPTICAL EMISSION SPECTROMETER.

REMARK : * = CALCULATED CONCENTRATION OF COBALT(II) SULPHATE, COBALT(II) DINITRATE, COBALT(II) CARBONATE AND COBALT(II) DIACETATE ARE BASED ON THE IDENTIFIED HEAVY METAL AND ANION RESULT.
IDENTITY OF ABOVE METAL SUBSTANCES PRESENT IN THE ARTICLE HAS TO BE FURTHER CONFIRMED.
= CALCULATED CONCENTRATION OF CHROMIUM TRIOXIDE IS BASED ON THE IDENTIFIED HEAVY METAL RESULT.
IDENTITY OF ABOVE METAL SUBSTANCES PRESENT IN THE ARTICLE HAS TO BE FURTHER CONFIRMED.
※ = CALCULATED CONCENTRATION OF CHROMIC ACID, OLIGOMERS OF CHROMIC ACID AND DICHROMIC ACID, DICHROMIC ACID ARE BASED ON THE IDENTIFIED TOTAL CHROMATES.

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SUBSTANCE	CAS NO.	RESULT (%)		LIMIT (%)
		#1	#2	
2-ETHOXYETHYL ACETATE	111-15-9	<0.05	<0.05	0.1
* STRONTIUM CHROMATE	7789-06-02	<0.05	<0.05	0.1
1,2-BENZENEDICARBOXYLIC ACID, DI-C7-11-BRANCHED AND LINEAR ALKYL ESTER (DHNUP)	68515-42-4	<0.05	<0.05	0.1
HYDRAZINE	302-01-2	<0.05	<0.05	0.1
1-METHYL-2-PYRROLIDONE	872-50-4	<0.05	<0.05	0.1
1,2,3-TRICHLOROPROPANE	96-18-4	<0.05	<0.05	0.1
1,2-BENZENEDICARBOXYLIC ACID, DI-C6-8-BRANCHED ALKYL ESTER, C7-RICH(DIHP)	71888-89-6	<0.05	<0.05	0.1

TEST METHOD : THE SAMPLE WAS EXTRACTED WITH ORGANIC SOLVENT AND DIGESTED, WITH REFERENCE TO US EPA 3540C, US EPA 8270D, US EPA 3051A AND ANALYZED BY GAS CHROMATOGRAPH MASS SPECTROMETER, ION CHROMATOGRAPHY AND INDUCTIVELY COUPLED PLASMA-OPTICAL EMISSION SPECTROMETER.

REMARK : * = CALCULATED CONCENTRATION OF STRONTIUM CHROMATE IS BASED ON THE IDENTIFIED HEAVY METAL AND ANION RESULT.
IDENTITY OF ABOVE METAL SUBSTANCES PRESENT IN THE ARTICLE HAS TO BE FURTHER CONFIRMED.

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SUBSTANCE	CAS NO.	RESULT(%)		LIMIT(%)
		#1	#2	
# ZIRCONIA ALUMINOSILICATE REFRACTORY CERAMIC FIBRES	-	<0.05	<0.05	0.1
# CALCIUM ARSENATE	7778-44-1	<0.05	<0.05	0.1
BIS(2-METHOXYETHYL) ETHER	111-96-6	<0.05	<0.05	0.1
# POTASSIUM HYDROXYOCTAOXODIZINCATEDICHROMATE	11103-86-9	<0.05	<0.05	0.1
# ALUMINOSILICATE REFRACTORY CERAMIC FIBRES	-	<0.05	<0.05	0.1
N,N-DIMETHYLACETAMIDE	127-19-5	<0.05	<0.05	0.1
# ARSENIC ACID	7778-39-4	<0.05	<0.05	0.1
# LEAD DIPICRATE	6477-64-1	<0.05	<0.05	0.1
1,2-DICHLOROETHANE	107-06-2	<0.05	<0.05	0.1
2-METHOXYANILINE; O-ANISIDINE	90-04-0	<0.05	<0.05	0.1
# TRILEAD DIARSENATE	3687-31-8	<0.05	<0.05	0.1
# PENTAZINC CHROMATE OCTAHYDROXIDE	49663-84-5	<0.05	<0.05	0.1
4-(1,1,3,3-TETRAMETHYLBUTYL)PHENOL	140-66-9	<0.05	<0.05	0.1
* FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH ANILINE	25214-70-4	<0.05	<0.05	0.1
BIS(2-METHOXYETHYL) PHTHALATE	117-82-8	<0.05	<0.05	0.1
# LEAD DIAZIDE, LEAD AZIDE	13424-46-9	<0.05	<0.05	0.1
# LEAD STYPHNATE	15245-44-0	<0.05	<0.05	0.1
2,2'-DICHLORO-4,4'-METHYLENEDIANILINE	101-14-4	<0.05	<0.05	0.1
PHENOLPHTHALEIN	77-09-8	<0.05	<0.05	0.1
# DICHROMIUM TRIS(CHROMATE)	24613-89-6	<0.05	<0.05	0.1

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TEST METHOD : THE SAMPLE WAS EXTRACTED WITH ORGANIC SOLVENT AND DIGESTED, WITH REFERENCE TO US EPA 3540C, US EPA 8270D, US EPA 3051A AND ANALYZED BY GAS CHROMATOGRAPH MASS SPECTROMETER, ION CHROMATOGRAPHY AND INDUCTIVELY COUPLED PLASMA-OPTICAL EMISSION SPECTROMETER.

REMARK : * = FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH ANILINE IS A SUBSTANCE WITH A VARYING CONTENT OF TRI- AND POLYNUCLEAR AMINES (SO-CALLED „POLYMERS “). A TYPICAL STANDARD PRODUCT WITH A CONTENT OF 4,4'-MDA BETWEEN CA. 47 AND < 65 %(W/W) IS LIQUID AT ROOM TEMPERATURE. SO THE AMOUNT OF FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH ANILINE IS CALCULATES BY THE COMPOSITION OF 4,4'-MDA.

= ZIRCONIA ALUMINOSILICATE REFRACTORY CERAMIC FIBRES, CALCIUM ARSENATE, POTASSIUM HYDROXYOCTAOXODIZINCATEDICHROMATE, ALUMINOSILICATE REFRACTORY CERAMIC FIBRES, ARSENIC ACID, LEAD DIPCATE, TRILEAD DIARSENATE, PENTAZINC CHROMATE OCTAHYDROXIDE, LEAD DIAZIDE, LEAD AZIDE, LEAD STYPHNATE, DICHROMIUM TRIS(CHROMATE) ARE BASED ON THE IDENTIFIED HEAVY METAL RESULT. IDENTITY OF ABOVE METAL SUBSTANCES PRESENT IN THE ARTICLE HAS TO BE FURTHER CONFIRMED.

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SUBSTANCE	CAS NO.	RESULT (%)		LIMIT (%)
		#1	#2	
[4-[4,4'-BIS(DIMETHYLAMINO) BENZHYDRYLIDENE] CYCLOHEXA-2,5-DIEN-1-YLIDENE] DIMETHYLAMMONIUMCHLORIDE(C.I.BASIC VIOLET 3) [WITH ≥ 0.1 % OF MICHLER'S KETONE(EC NO. 202-027-5) OR MICHLER'S BASE(EC NO. 202-959-2)]	548-62-9	<0.05	<0.05	0.1
1,3,5-TRIS[(2S AND 2R)-2,3-EPOXYPROPYL]-1,3,5-TRIAZINE-2,4,6-(1H,3H,5H)-TRIONE (B-TGIC)	59653-74-6	<0.05	<0.05	0.1
1,2-BIS(2-METHOXYETHOXY ETHANE(TEGDME; TRIGLYME)	112-49-2	<0.05	<0.05	0.1
4,4'-BIS(DIMETHYLAMINO)-4''-(METHYLAMINO) TRITYLALCOHOL [WITH ≥0.1 % OF MICHLER'S KETONE(EC NO. 202-027-5) OR MICHLER'S BASE (EC NO. 202-959-2)]	561-41-1	<0.05	<0.05	0.1
# LEAD(II) BIS(METHANESULFONATE)	17570-76-2	<0.05	<0.05	0.1
1,2-DIMETHOXYETHANE; ETHYLENE GLYCOL DIMETHYL ETHER (EGDME)	110-71-4	<0.05	<0.05	0.1
* DIBORON TRIOXIDE	1303-86-2	<0.05	<0.05	0.1
A,A-BIS[4-(DIMETHYLAMINO) PHENYL]-4(PHENYLAMINO) NAPHTHALENE-1-METHANOL (C.I.SOLVENT BLUE 4) [WITH ≥ 0.1 % OF MICHLER'S KETONE (EC NO. 202-027-5) OR MICHLER'S BASE (EC NO. 202-959-2)]	6786-83-0	<0.05	<0.05	0.1
1,3,5-TRIS (OXIRAN-2-YLMETHYL)-1,3,5-TRIAZINANE-2,4,6-TRIONE (TGIC)	2451-62-9	<0.05	<0.05	0.1
4,4'-BIS (DIMETHYLAMINO) BENZOPHENONE (MICHLER'S KETONE)	90-94-8	<0.05	<0.05	0.1
N,N,N',N'-TETRAMETHYL-4,4'-METHYLENEDIANILINE (MICHLER'S BASE)	101-61-1	<0.05	<0.05	0.1
[4-[4-ANILINO-1-NAPHTHYL] [4-(DIMETHYLAMINO) PHENYL] METHYLENE] CYCLOHEXA-2,5-DIEN-1-YLIDENE] DIMETHYLAMMONIUMCHLORIDE (C.I.BASIC BLUE 26) [WITH ≥ 0.1 % OF MICHLER'S KETONE (EC NO. 202-027-5) OR MICHLER'S BASE (EC NO. 202-959-2)]	2580-56-5	<0.05	<0.05	0.1
FORMAMIDE	1975-12-07	<0.05	<0.05	0.1

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TEST CONDUCTED

TEST RESULT

TEST METHOD : THE SAMPLE WAS EXTRACTED WITH ORGANIC SOLVENT AND DIGESTED, WITH REFERENCE TO US EPA 3540C, US EPA 8270D, US EPA 3051A AND ANALYZED BY GAS CHROMATOGRAPH MASS SPECTROMETER, ION CHROMATOGRAPHY AND INDUCTIVELY COUPLED PLASMA-OPTICAL EMISSION SPECTROMETER.

REMARK : # = LEAD(II) BIS(METHANESULFONATE) IS BASED ON THE IDENTIFIED HEAVY METAL RESULT. IDENTITY OF ABOVE METAL SUBSTANCES PRESENT IN THE ARTICLE HAS TO BE FURTHER CONFIRMED.

* = THE CONCENTRATION OF DIBORON TRIOXIDE IS CALCULATED AS SELECTED ELEMENT(S).

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TEST CONDUCTED
TEST RESULT

TEST SUMMARY : SUBSTANCES OF VERY HIGH CONCERN (SVHC) SCREENING BASED ON THE CANDIDATE LIST PUBLISHED BY EUROPEAN CHEMICALS AGENCY (ECHA) ON DECEMBER 19, 2012 REGARDING REGULATION (EC) NO 1907/2006 CONCERNING THE REACH.

SUBSTANCE	CAS NO.	RESULT(%)		LIMIT(%)
		#1	#2	
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	<0.05	<0.05	0.1
6-METHOXY-M-TOLUIDINE (P-CRESIDINE)	120-71-8	<0.05	<0.05	0.1
CYCLOHEXANE-1,2-DICARBOXYLIC ANHYDRIDE [1], CIS-CYCLOHEXANE-1,2-DICARBOXYLIC ANHYDRIDE [2], TRANS-CYCLOHEXANE-1,2-DICARBOXYLIC ANHYDRIDE [3] [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]	85-42-7, 13149-00-3, 14166-21-3	<0.05	<0.05	0.1
# PYROCHLORE, ANTIMONY LEAD YELLOW	8012-00-8	<0.05	<0.05	0.1
HENICOSAFLUOROUNDECANOIC ACID	2058-94-8	<0.05	<0.05	0.1
4-AMINOAZOBENZENE	60-09-3	<0.05	<0.05	0.1
# SILICIC ACID, LEAD SALT	11120-22-2	<0.05	<0.05	0.1

TEST METHOD : THE SAMPLE WAS EXTRACTED WITH ORGANIC SOLVENT AND DIGESTED, WITH REFERENCE TO US EPA 3540C, US EPA 8270D, US EPA 3051A AND ANALYZED BY GAS CHROMATOGRAPH MASS SPECTROMETER, HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY AND INDUCTIVELY COUPLED PLASMA-OPTICAL EMISSION SPECTROMETER.

REMARK : # = THE CONCENTRATION OF PYROCHLORE, ANTIMONY LEAD YELLOW AND SILICIC ACID, LEAD SALT IS CALCULATED AS SELECTED ELEMENT(S)

e-DOCUMENT SERVICE

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TEST CONDUCTED
TEST RESULT

SUBSTANCE	CAS NO.	RESULT (%)		LIMIT(%)
		#1	#2	
# LEAD TITANIUM ZIRCONIUM OXIDE	12626-81-2	<0.05	<0.05	0.1
# LEAD MONOXIDE (LEAD OXIDE)	1317-36-8	<0.05	<0.05	0.1
0-TOLUIDINE	95-53-4	<0.05	<0.05	0.1
※ 3-ETHYL-2-METHYL-2-(3-METHYLBUTYL)-1,3-OXAZOLIDINE	143860-04-2	<0.05	<0.05	0.1
* DIBUTYLTIN DICHLORIDE (DBTC)	683-18-1	<0.05	<0.05	0.1
# LEAD BIS(TETRAFLUOROBORATE)	13814-96-5	<0.05	<0.05	0.1
# LEAD DINITRATE	10099-74-8	<0.05	<0.05	0.1
# SILICIC ACID (H ₂ Si ₂ O ₅), BARIUM SALT (1:1), LEAD-DOPED [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	<0.05	<0.05	0.1
# TRILEAD BIS(CARBONATE)DIHYDROXIDE	1319-46-6	<0.05	<0.05	0.1
4,4'-METHYLENEDI-0-TOLUIDINE	838-88-0	<0.05	<0.05	0.1
DIETHYL SULPHATE	64-67-5	<0.05	<0.05	0.1
DIMETHYL SULPHATE	77-78-1	<0.05	<0.05	0.1

TEST METHOD : THE SAMPLE WAS EXTRACTED WITH ORGANIC SOLVENT AND DIGESTED, WITH REFERENCE TO US EPA 3540C, US EPA 8270D, US EPA 3051A AND ANALYZED BY GAS CHROMATOGRAPH MASS SPECTROMETER AND INDUCTIVELY COUPLED PLASMA-OPTICAL EMISSION SPECTROMETER.

REMARK : * = THE DIBUTYLTIN DICHLORIDE (DBTC) DERIVATES IS A COMPLEX AND CONSISTS OF VARIABLE COMPOSITIONS OF ORGANOTIN COMPOUNDS. THE AMOUNT OF DIBUTYLTIN DICHLORIDE (DBTC) DERIVATES IS CALCULATED BY THE COMPOSITION OF ORGANOTIN COMPOUNDS FOUND IN SAMPLE.

※ = THE AMOUNT OF 3-ETHYL-2-METHYL-2-(3-METHYLBUTYL)-1,3-OXAZOLIDINE IS CALCULATED BY THE 1,3-OXAZOLIDINE FOUND IN SAMPLE.

= CALCULATED CONCENTRATION OF LEAD TITANIUM ZIRCONIUM OXIDE, LEAD MONOXIDE, LEAD BIS(TETRAFLUOROBORATE), LEAD DINITRATE, SILICIC ACID (H₂Si₂O₅), BARIUM SALT (1:1), LEAD-DOPED AND TRILEAD BIS(CARBONATE)DIHYDROXIDE ARE BASED ON THE IDENTIFIED HEAVY METAL RESULT. IDENTIFICATION OF ABOVE METAL SUBSTANCES PRESENT IN THE ARTICLE HAS TO BE FURTHER CONFIRMED.

e-DOCUMENT SERVICE

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TEST CONDUCTED
TEST RESULT

SUBSTANCE	CAS NO.	RESULT(%)		LIMIT(%)
		#1	#2	
N,N-DIMETHYLFORMAMIDE	68-12-2	<0.05	<0.05	0.1
4-(1,1,3,3-TETRAMETHYLBUTYL)PHENOL, ETHOXYLATED [COVERING WELL-DEFINED SUBSTANCES AND UVCB SUBSTANCES, POLYMERS AND HOMOLOGUES]	-	<0.05	<0.05	0.1
4-NONYLPHENOL, BRANCHED AND LINEAR [<i>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</i>]	-	<0.05	<0.05	0.1
FURAN	110-00-9	<0.05	<0.05	0.1
# LEAD OXIDE SULFATE	12036-76-9	<0.05	<0.05	0.1
# LEAD TITANIUM TRIOXIDE	12060-00-3	<0.05	<0.05	0.1
BIS(PENTABROMOPHENYL) ETHER (DECABROMODIPHENYL ETHER; DECABDE)	1163-19-5	<0.05	<0.05	0.1
DINOSEB (6-SEC-BUTYL-2,4-DINITROPHENOL)	88-85-7	<0.05	<0.05	0.1
1,2-DIETHOXYETHANE	629-14-1	<0.05	<0.05	0.1
N-METHYLACETAMIDE	79-16-3	<0.05	<0.05	0.1
TETRALEAD TRIOXIDE SULPHATE	12202-17-4	<0.05	<0.05	0.1

TEST METHOD : THE SAMPLE WAS EXTRACTED WITH ORGANIC SOLVENT AND DIGESTED, WITH REFERENCE TO US EPA 3540C, US EPA 8270D, US EPA 3051A, EPA 8151A AND ANALYZED BY GAS CHROMATOGRAPH MASS SPECTROMETER, HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY AND INDUCTIVELY COUPLED PLASMA-OPTICAL EMISSION SPECTROMETER.

REMARK - # : CALCULATED CONCENTRATION OF LEAD OXIDE SULFATE AND LEAD TITANIUM TRIOXIDE ARE BASED ON THE IDENTIFIED HEAVY METAL RESULT. IDENTITY OF ABOVE METAL SUBSTANCES PRESENT IN THE ARTICLE HAS TO BE FURTHER CONFIRMED.

e-DOCUMENT SERVICE

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TEST CONDUCTED
TEST RESULT

SUBSTANCE	CAS NO.	RESULT(%)		LIMIT(%)
		#1	#2	
DIISOPENTYLPHTHALATE	605-50-5	<0.05	<0.05	0.1
1,2-BENZENEDICARBOXYLIC ACID, DIPENTYLESTER, BRANCHED AND LINEAR	84777-06-0	<0.05	<0.05	0.1
BIPHENYL-4-YLAMINE	92-67-1	<0.05	<0.05	0.1
FATTY ACIDS, C16-18, LEAD SALTS	91031-62-8	<0.05	<0.05	0.1
# ORANGE LEAD (LEAD TETROXIDE)	1314-41-6	<0.05	<0.05	0.1
4,4'-OXYDIANILINE AND ITS SALTS	101-80-4	<0.05	<0.05	0.1
* DIAZENE-1,2-DICARBOXAMIDE (C,C'-AZODI(FORMAMIDE))	123-77-3	<0.05	<0.05	0.1
# SULFUROUS ACID, LEAD SALT, DIBASIC	62229-08-7	<0.05	<0.05	0.1
# LEAD CYANAMIDATE	20837-86-9	<0.05	<0.05	0.1

TEST METHOD : THE SAMPLE WAS EXTRACTED WITH ORGANIC SOLVENT AND DIGESTED, WITH REFERENCE TO US EPA 3540C, US EPA 8270D, US EPA 3051A AND ANALYZED BY GAS CHROMATOGRAPH MASS SPECTROMETER AND INDUCTIVELY COUPLED PLASMA-OPTICAL EMISSION SPECTROMETER.

REMARK : * = THE AMOUNT OF DIAZENE-1,2-DICARBOXAMIDE (C,C'-AZODI(FORMAMIDE)) DERIVATES IS CALCULATES BY THE FORMAMIDE FOUND IN SAMPLE.

= CALCULATED CONCENTRATION OF ORANGE LEAD, SULFUROUS ACID, LEAD SALT, DIBASIC AND LEAD CYANAMIDATE ARE BASED ON THE IDENTIFIED HEAVY METAL RESULT. IDENTITY OF ABOVE METAL SUBSTANCES PRESENT IN THE ARTICLE HAS TO BE FURTHER CONFIRMED.

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TEST CONDUCTED
TEST RESULT

SUBSTANCE	CAS NO.	RESULT(%)		LIMIT(%)
		#1	#2	
# ACETIC ACID, LEAD SALT, BASIC	51404-69-4	<0.05	<0.05	0.1
# [PHthalato(2-)]Dioxotrilead	69011-06-9	<0.05	<0.05	0.1
# Tetraethyllead	78-00-2	<0.05	<0.05	0.1
N-Pentyl-Isopentylphthalate	776297-69-9	<0.05	<0.05	0.1
# Pentalead Tetraoxide Sulphate	12065-90-6	<0.05	<0.05	0.1
Heptacosafuorotetradecanoic acid	376-06-7	<0.05	<0.05	0.1
Tricosafuorododecanoic acid	307-55-1	<0.05	<0.05	0.1
1-Bromopropane (N-Propyl Bromide)	106-94-5	<0.05	<0.05	0.1
# Dioxobis(Stearato)Trilead	12578-12-0	<0.05	<0.05	0.1
Pentacosafuorotridecanoic acid	72629-94-8	<0.05	<0.05	0.1
Methoxyacetic acid	625-45-6	<0.05	<0.05	0.1
Methyloxirane (Propylene Oxide)	75-56-9	<0.05	<0.05	0.1
# Trilead Dioxide Phosphonate	12141-20-7	<0.05	<0.05	0.1
O-Aminoazotoluene	97-56-3	<0.05	<0.05	0.1
4-Methyl-m-phenylenediamine (Toluene-2,4-diamine)	95-80-7	<0.05	<0.05	0.1

TEST METHOD : THE SAMPLE WAS EXTRACTED WITH ORGANIC SOLVENT AND DIGESTED, WITH REFERENCE TO US EPA 3540C, US EPA 8270D, US EPA 3051A AND ANALYZED BY GAS CHROMATOGRAPH MASS SPECTROMETER, HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY AND INDUCTIVELY COUPLED PLASMA-OPTICAL EMISSION SPECTROMETER.

REMARK : # = CALCULATED CONCENTRATION OF ACETIC ACID, LEAD SALT, BASIC, [PHthalato(2-)]Dioxotrilead, Tetraethyllead, Pentalead Tetraoxide Sulphate, Dioxobis(Stearato)Trilead AND TRILEAD DIOXIDE PHOSPHONATE ARE BASED ON THE IDENTIFIED HEAVY METAL RESULT. IDENTITY OF ABOVE METAL SUBSTANCES PRESENT IN THE ARTICLE HAS TO BE FURTHER CONFIRMED.

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TEST CONDUCTED
TEST RESULT

TEST SUMMARY : SUBSTANCES OF VERY HIGH CONCERN (SVHC) SCREENING BASED ON THE CANDIDATE LIST PUBLISHED BY EUROPEAN CHEMICALS AGENCY (ECHA) ON JUNE 20, 2013 REGARDING REGULATION (EC) NO 1907/2006 CONCERNING THE REACH.

SUBSTANCE	CAS NO.	RESULT(%)		LIMIT(%)
		#1	#2	
CADMIUM	7440-43-9	<0.05	<0.05	0.1
AMMONIUM PENTADEC AFLUOROOCTANOATE (APFO)	3825-26-1	<0.05	<0.05	0.1
PENTADEC AFLUOROOCTANOIC ACID (PFOA)	335-67-1	<0.05	<0.05	0.1
DIPENTYL PHTHALATE (DPP)	131-18-0	<0.05	<0.05	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]	-	<0.05	<0.05	0.1
CADMIUM OXIDE	1306-19-0	<0.05	<0.05	0.1

TEST METHOD : THE SAMPLE WAS EXTRACTED WITH ORGANIC SOLVENT AND DIGESTED, WITH REFERENCE TO US EPA 3540C, US EPA 8270D, US EPA 3051A AND ANALYZED BY GAS CHROMATOGRAPH MASS SPECTROMETER, HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY AND INDUCTIVELY COUPLED PLASMA-OPTICAL EMISSION SPECTROMETER.

REMARK : # = CALCULATED CONCENTRATION OF CADMIUM OXIDE IS BASED ON THE IDENTIFIED HEAVY METAL RESULT. IDENTITY OF ABOVE METAL SUBSTANCES PRESENT IN THE ARTICLE HAS TO BE FURTHER CONFIRMED.

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TEST CONDUCTED
TEST RESULT

TEST SUMMARY : SUBSTANCES OF VERY HIGH CONCERN (SVHC) SCREENING BASED ON THE CANDIDATE LIST PUBLISHED BY EUROPEAN CHEMICALS AGENCY (ECHA) ON DECEMBER 16, 2013 REGARDING REGULATION (EC) NO 1907/2006 CONCERNING THE REACH.

SUBSTANCE	CAS NO.	RESULT(%)		LIMIT(%)
		#1	#2	
# CADMIUM SULPHIDE	1306-23-6	<0.05	<0.05	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	<0.05	<0.05	0.1
DIHEXYL PHTHALATE	84-75-3	<0.05	<0.05	0.1
IMIDAZOLIDINE-2-THIONE ; (2-IMIDAZOLINE-2-THIOL)	96-45-7	<0.05	<0.05	0.1
TRIXYL PHOSPHATE	25155-23-1	<0.05	<0.05	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	<0.05	<0.05	0.1
# LEAD DI(ACETATE)	301-04-2	<0.05	<0.05	0.1

TEST METHOD : THE SAMPLE WAS EXTRACTED WITH ORGANIC SOLVENT AND DIGESTED, WITH REFERENCE TO US EPA 3540C, US EPA 8270D, US EPA 3051A AND ANALYZED BY GAS CHROMATOGRAPH MASS SPECTROMETER, HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY AND INDUCTIVELY COUPLED PLASMA-OPTICAL EMISSION SPECTROMETER.

REMARK : # = CALCULATED CONCENTRATION OF CADMIUM SULPHIDE AND LEAD DI(ACETATE) IS BASED ON THE IDENTIFIED HEAVY METAL RESULT. IDENTITY OF ABOVE METAL SUBSTANCES PRESENT IN THE ARTICLE HAS TO BE FURTHER CONFIRMED.

e-DOCUMENT SERVICE

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TEST CONDUCTED
TEST RESULT

TEST SUMMARY : SUBSTANCES OF VERY HIGH CONCERN (SVHC) SCREENING BASED ON THE CANDIDATE LIST PUBLISHED BY EUROPEAN CHEMICALS AGENCY (ECHA) ON JUNE 16, 2014 REGARDING REGULATION (EC) NO 1907/2006 CONCERNING THE REACH.

SUBSTANCE	CAS NO.	RESULT(%)		LIMIT(%)
		#1	#2	
# CADMIUM CHLORIDE	10108-64-2	<0.05	<0.05	0.1
1,2-BENZENEDICARBOXYLIC ACID, DIHEXYL ESTER, BRANCHED AND LINEAR	68515-50-4	<0.05	<0.05	0.1
# SODIUM PEROXOMETABORATE	7632-04-4	<0.05	<0.05	0.1
# SODIUM PERBORATE; PERBORIC ACID, SODIUM SALT	-	<0.05	<0.05	0.1

TEST METHOD : THE SAMPLE WAS EXTRACTED WITH ORGANIC SOLVENT AND DIGESTED, WITH REFERENCE TO US EPA 3540C, US EPA 8270D, US EPA 3051A AND ANALYZED BY GAS CHROMATOGRAPH MASS SPECTROMETER.

REMARK : # = CALCULATED CONCENTRATION OF CADMIUM CHLORIDE AND SODIUM PEROXOMETABORATE, SODIUM PERBORATE; PERBORIC ACID, SODIUM SALTS IS BASED ON THE IDENTIFIED HEAVY METAL RESULT. IDENTITY OF ABOVE METAL SUBSTANCES PRESENT IN THE ARTICLE HAS TO BE FURTHER CONFIRMED.

SAMPLE : #1

#2

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