

GUIZHOU PANJIANG LONGMENG NEW ENVIRONMENTAL MATERIALS CO., LTD
TONGZHOU INDUSTRIAL PARK, PINGTANG COUNTY, GUIZHOU PROVINCE, PRC

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : RICH MINERAL PAPER
SGS Ref No. : CANHG1716459901
Style / Item No. : RPD 17081401
Manufacture : GUIZHOU PANJIANG LONGMENG NEW ENVIRONMENTAL MATERIALS CO., LTD
Supplier : GUIZHOU PANJIANG LONGMENG NEW ENVIRONMENTAL MATERIALS CO., LTD
Sample Receiving Date : Aug. 16, 2017
Test Performing Date : Aug. 16, 2017 to Aug. 25, 2017
Test Performed : Selected test(s) as requested by applicant
Test Result(s) : For further details, please refer to the following page(s)

Summary :

According to the specified scope and evaluation screening, the test results of SVHC are **PASS**
≤ 0.1% (w/w) in the submitted sample.

Remark: This test report is issued based on the modification of original test report (Reference No. XMHL1708005108CW, issued date: Aug. 25, 2017). According to applicant's requirements, following changes are included :

- a. Change of applicant's name.
- b. Change of applicant's address.
- c. Change of the sample Manufacture.
- d. Change of the sample Supplier.

Signed for and on behalf of
Xiamen Branch, SGS-CSTC Co., Ltd.



Sharky Xia
Approved Signatory



Remark :

(1) The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<http://echa.europa.eu/web/guest/candidate-list-table>
 These lists are under evaluation by ECHA and may subject to change in the future.

(2) Concerning article(s):

In accordance with Regulation (EC) No 1907/2006, any EU 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 in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List 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 in the Candidate List.

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>

(3) Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

(4) Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and No 790/2009, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:



- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
 - a mixture that is classified as dangerous according Dangerous Preparations Directive 1999/45/EC or classified as hazardous under the CLP Regulation (EC) No 1272/2008, when their concentrations are equal to, or greater than, those defined in the Article 3(3) of 1999/45/EC or the lower values given in Part 3 of Annex VI of Regulation (EC) No. 1272/2008; or
 - a mixture is not classified as dangerous under Directive 1999/45/EC, but contains either:
 - (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
 - (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
 - (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
 - (d) a substance for which there are Europe-wide workplace exposure limits.
- (5) If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample :

Sample Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN17-164599.001	White paper

Test Method :

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Notes :

1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
2. RL = Reporting Limit. All RL are based on homogenous material. ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- 3.* The test result is based on the calculation of selected element(s) and to the worst-case scenario.
- ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website : www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm
4. RL = 0.001% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0005% (only for Lead bis(tetrafluoroborate)).
5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.
6. Δ CAS No. of diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6, 134237-51-7, 134237-52-8.
7. ☆ CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).



Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.010
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.010
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.010
I	4	Anthracene	120-12-7	0.010
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.010
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.010
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.010
I	8	Dibutyl phthalate (DBP)	84-74-2	0.010
I	9	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) Δ	25637-99-4,3194-55-6	0.010
II	10	2,4-Dinitrotoluene	121-14-2	0.010
II	11	Acrylamide	79-06-1	0.010
II	12	Anthracene oil**	90640-80-5	0.010
II	13	Anthracene oil, anthracene paste**	90640-81-6	0.010
II	14	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.010
II	15	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.010
II	16	Anthracene oil, anthracene-low**	90640-82-7	0.010
II	17	Diisobutyl phthalate	84-69-5	0.010
II	18	Pitch, coal tar, high temp.**	65996-93-2	0.010
II	19	Tris(2-chloroethyl)phosphate	115-96-8	0.010
III	20	Trichloroethylene	79-01-6	0.010
IV	21	2-Ethoxyethanol	110-80-5	0.010
IV	22	2-Methoxyethanol	109-86-4	0.010
V	23	1,2,3-trichloropropane	96-18-4	0.010
V	24	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.010
V	25	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.010
V	26	1-methyl-2-pyrrolidone	872-50-4	0.010
V	27	2-ethoxyethyl acetate	111-15-9	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
V	28	Hydrazine	7803-57-8, 302-01-2	0.010
VI	29	1,2-Dichloroethane	107-06-2	0.010
VI	30	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.010
VI	31	2-Methoxyaniline; o-Anisidine	90-04-0	0.010
VI	32	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.010
VI	33	Bis(2-methoxyethyl) ether	111-96-6	0.010
VI	34	Bis(2-methoxyethyl) phthalate	117-82-8	0.010
VI	35	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.010
VI	36	N,N-dimethylacetamide	127-19-5	0.010
VI	37	Phenolphthalein	77-09-8	0.010
VII	38	[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	0.010
VII	39	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.010
VII	40	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.010
VII	41	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.010
VII	42	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.010
VII	43	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.010
VII	44	Formamide	75-12-7	0.010
VII	45	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.010
VII	46	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	0.010
VII	47	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.010
VII	48	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	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	49	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.010
VIII	50	1,2-Diethoxyethane	629-14-1	0.010
VIII	51	1-Bromopropane	106-94-5	0.010
VIII	52	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.010
VIII	53	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.010
VIII	54	4,4'-Methylenedi-o-toluidine	838-88-0	0.010
VIII	55	4,4'-Oxydianiline and its salts	101-80-4	0.010
VIII	56	4-Aminoazobenzene	60-09-3	0.010
VIII	57	4-Methyl-m-phenylenediamine	95-80-7	0.010
VIII	58	4-Nonylphenol, branched and linear	-	0.010
VIII	59	6-Methoxy-m-toluidine	120-71-8	0.010
VIII	60	Biphenyl-4-ylamine	92-67-1	0.010
VIII	61	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.010
VIII	62	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149-00-3,1 4166-21-3	0.010
VIII	63	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.010
VIII	64	Dibutyltin dichloride (DBTC)	683-18-1	0.010
VIII	65	Diethyl sulphate	64-67-5	0.010
VIII	66	Diisopentylphthalate	605-50-5	0.010
VIII	67	Dimethyl sulphate	77-78-1	0.010
VIII	68	Dinoseb	88-85-7	0.010
VIII	69	Furan	110-00-9	0.010
VIII	70	Henicosfluoroundecanoic acid	2058-94-8	0.010
VIII	71	Heptacosfluorotetradecanoic acid	376-06-7	0.010
VIII	72	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	☆	0.010
VIII	73	Methoxyacetic acid	625-45-6	0.010
VIII	74	Methyloxirane (Propylene oxide)	75-56-9	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	75	N,N-dimethylformamide	68-12-2	0.010
VIII	76	N-Methylacetamide	79-16-3	0.010
VIII	77	N-Pentyl-isopentylphthalate	776297-69-9	0.010
VIII	78	o-Aminoazotoluene	97-56-3	0.010
VIII	79	o-Toluidine	95-53-4	0.010
VIII	80	Pentacosafuorotridecanoic acid	72629-94-8	0.010
VIII	81	Tricosafuorododecanoic acid	307-55-1	0.010
IX	82	4-Nonylphenol, branched and linear, ethoxylated	-	0.010
IX	83	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.010
IX	84	Dipentyl phthalate (DPP)	131-18-0	0.010
IX	85	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.010
X	86	Dihexyl phthalate	84-75-3	0.010
X	87	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.010
X	88	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	0.010
X	89	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.010
X	90	Trixylyl phosphate	25155-23-1	0.010
XI	91	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.010
XII	92	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.010
XII	93	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.010
XII	94	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE	15571-58-1	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
XII	95	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 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 & MOTE)	-	0.010
XIII	96	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.010
XIII	97	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]	-	0.010
XIV	98	1,3-propanesultone	1120-71-4	0.010
XIV	99	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.010
XIV	100	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.010
XIV	101	Nitrobenzene	98-95-3	0.010
XIV	102	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049-39-8, 4149-60-4	0.010
XV	103	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.010
XVI	104	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.010
XVI	105	4-Heptylphenol, branched and linear	-	0.010
XVI	106	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335-76-2,3 830-45-3	0.010
XVI	107	p-(1,1-dimethylpropyl)phenol	80-46-6	0.010
XVII	108	Perfluorohexane-1-sulphonic acid and its salts	-	0.010
I	109	Cobalt dichloride*	7646-79-9	0.001
I	110	Diarsenic pentaoxide*	1303-28-2	0.001
I	111	Diarsenic trioxide*	1327-53-3	0.001
I	112	Lead hydrogen arsenate*	7784-40-9	0.001



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Batch	No.	Substance Name	CAS No.	RL (%)
I	113	Sodium dichromate*	7789-12-0, 10588-01-9	0.001
I	114	Triethyl arsenate*	15606-95-8	0.001
II	115	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.001
II	116	Lead chromate*	7758-97-6	0.001
II	117	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.001
III	118	Ammonium dichromate*	7789-09-5	0.001
III	119	Boric acid*	10043-35-3, 11113-50-1	0.001
III	120	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.001
III	121	Potassium chromate*	7789-00-6	0.001
III	122	Potassium dichromate*	7778-50-9	0.001
III	123	Sodium chromate*	7775-11-3	0.001
III	124	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.001
IV	125	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.001
IV	126	Chromium trioxide*	1333-82-0	0.001
IV	127	Cobalt(II) carbonate*	513-79-1	0.001
IV	128	Cobalt(II) diacetate*	71-48-7	0.001
IV	129	Cobalt(II) dinitrate*	10141-05-6	0.001
IV	130	Cobalt(II) sulphate*	10124-43-3	0.001
V	131	Strontium chromate*	7789-06-2	0.001
VI	132	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.001
VI	133	Arsenic acid*	7778-39-4	0.001
VI	134	Calcium arsenate*	7778-44-1	0.001
VI	135	Dichromium tris(chromate) *	24613-89-6	0.001
VI	136	Lead diazide, Lead azide*	13424-46-9	0.001



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VI	137	Lead dipicrate*	6477-64-1	0.001
VI	138	Lead styphnate*	15245-44-0	0.001
VI	139	Pentazinc chromate octahydroxide*	49663-84-5	0.001
VI	140	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.001
VI	141	Trilead diarsenate*	3687-31-8	0.001
VI	142	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.001
VII	143	Diboron trioxide*	1303-86-2	0.001
VII	144	Lead(II) bis(methanesulfonate)*	17570-76-2	0.001
VIII	145	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.001
VIII	146	Acetic acid, lead salt, basic*	51404-69-4	0.001
VIII	147	Dioxobis(stearato)trilead*	12578-12-0	0.001
VIII	148	Fatty acids, C16-18, lead salts*	91031-62-8	0.001
VIII	149	Lead bis(tetrafluoroborate)*	13814-96-5	0.001
VIII	150	Lead cyanamidate*	20837-86-9	0.001
VIII	151	Lead dinitrate*	10099-74-8	0.001
VIII	152	Lead monoxide*	1317-36-8	0.001
VIII	153	Lead oxide sulfate*	12036-76-9	0.001
VIII	154	Lead tetroxide (orange lead)*	1314-41-6	0.001
VIII	155	Lead titanium trioxide*	12060-00-3	0.001
VIII	156	Lead titanium zirconium oxide*	12626-81-2	0.001
VIII	157	Pentalead tetraoxide sulphate*	12065-90-6	0.001
VIII	158	Pyrochlore, antimony lead yellow*	8012-00-8	0.001
VIII	159	Silicic acid, barium salt, lead-doped*	68784-75-8	0.001
VIII	160	Silicic acid, lead salt*	11120-22-2	0.001
VIII	161	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.001
VIII	162	Tetraethyllead*	78-00-2	0.001
VIII	163	Tetrolead trioxide sulphate*	12202-17-4	0.001
VIII	164	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.001
VIII	165	Trilead dioxide phosphonate*	12141-20-7	0.001



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
IX	166	Cadmium oxide*	1306-19-0	0.001
IX	167	Cadmium*	7440-43-9	0.001
X	168	Cadmium sulphide*	1306-23-6	0.001
X	169	Lead di(acetate)*	301-04-2	0.001
XI	170	Cadmium chloride*	10108-64-2	0.001
XI	171	Sodium perborate; perboric acid, sodium salt*	-	0.001
XI	172	Sodium peroxometaborate*	7632-04-4	0.001
XII	173	Cadmium fluoride*	7790-79-6	0.001
XII	174	Cadmium sulphate*	10124-36-4, 31119-53-6	0.001

Remark : This test was subcontracted to Guangzhou Branch, SGS-CSTC Co., Ltd.

Sample photo(s):



CAN17-164599.001

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End of Report



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