



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

TEST REPORT

Test Report Number : CNB3131118-04441-C



CTS (Ningbo) Testing Service Technology Co., Ltd.

Fl.2 South Huoju Building, No.181 Canghai Rd., Jiangdong High-tech Park, Ningbo China

PHONE +86-574-87912121 FAX +86-574-87907993

**TEST REPORT**

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DATE : Nov. 22, 2013
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CTS (Ningbo) Testing Service Technology Co., Ltd.

Fl.2 south Huoju Building, No.181 canghai Rd., Jiangdong High-tech Park Ningbo China

Tel: +86-574-87912121 (16 lines)

Fax: +86-574-87907993

Complaint line: +86-574-87908003

E-mail: cts@cts-lab.com

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TEST REPORTREPORT No. : CNB3131118-04441-C
DATE : Nov. 22, 2013
PAGE : 2 of 20**1 General Information****1.1 Application Details**Name : YUEQING LANGIR ELECTRIC CO.,LTD.
Address : 4F,NO.188,LIUQING NORTH ROAD, LIUSHI TOWN,YUEQING
CITY,ZHEJIANG PROVINCE, CHINA
Contact : /
Telephone : +86-577-62737672
Fax : +86-577-62737671
Mobile telephone : 8613695747282
Email : sales@sunshinele.com**1.2 Manufacturer & Buyer**Manufacturer name : YUEQING LANGIR ELECTRIC CO.,LTD.
Address : 4F,NO.188,LIUQING NORTH ROAD, LIUSHI TOWN,YUEQING
CITY,ZHEJIANG PROVINCE, CHINA
Contact : /
Telephone : +86-577-62737672
Fax : +86-577-62737671
Mobile telephone : 8613695747282
Email : sales@sunshinele.com
Buyer name : /**1.3 Description of the Test Item**Sample name : VANDAL RESISTANT PUSHBUTTON SWITCH
Model No. : L25,V12,V16,V19,V22,P12,
LS16,L16,L19,L19A,L19M,LF19,L22,PZ
Brand name : LANGIR
Condition of sample(s) : EFFECTIVE

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2 Test Results

2.1 General Information

2.1.1 Sample Receiving Date

Nov. 18, 2013

2.1.2 Testing Period

Nov. 18, 2013 to Nov. 22, 2013

2.1.3 Test Requested

- 1) As specified by applicant, based on the list published by European chemicals agency (ECHA) on 2008 October 28 for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the fifteen (15) Substances of Very High Concern (SVHC) content in the submitted sample.
- 2) As specified by applicant, based on the list published by European chemicals agency (ECHA) on 2010 January 13 for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the thirteen (13) Substances of Very High Concern (SVHC) content in the submitted sample.
- 3) As specified by applicant, based on the list published by European chemicals agency (ECHA) on 2010 June 18 for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the eight (8) Substances of Very High Concern (SVHC) content in the submitted sample.
- 4) As specified by applicant, based on the list of the fourth published by European chemicals agency (ECHA) on 2010 December for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the eight (8) Substances of Very High Concern (SVHC) content in the submitted sample.
- 5) As specified by applicant, based on the list of the fifth published by European chemicals agency (ECHA) on 2011 May 31 for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the seven (7) Substances of Very High Concern (SVHC) content in the submitted sample.
- 6) As specified by applicant, based on the list of the sixth published by European chemicals agency (ECHA) on 2011 December 19 for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the twenty (20) Substances of Very High Concern (SVHC) content in the submitted sample.
- 7) As specified by applicant, based on the list of the seventh published by European chemicals agency (ECHA) on 2012 June 18 for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the thirteen (13) Substances of Very High Concern (SVHC) content in the submitted sample.

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- 8) As specified by applicant, based on the list of the eighth published by European chemicals agency (ECHA) on 2012 December 19 for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the fifty four (54) Substances of Very High Concern (SVHC) content in the submitted sample.
- 9) As specified by applicant, based on the list of the ninth published by European chemicals agency (ECHA) on 2013 June 20 for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the six (6) Substances of Very High Concern (SVHC) content in the submitted sample.

2.1.4 Test Method and Test Instrument

Refer to US EPA3052:1996, US EPA 3050B:1996, US EPA3060A:1996, US EPA 3550C:2007, US EPA 3540C:1996, ISO 17353:2004, BS EN 14582:2007, EN 14372:2004 for sample pretreatment. Analyzed by ICP-OES, UV-Vis, IC, HPLC, GC-MS and LC-MS-MS.

2.1.5 Conclusion

According to the specified scope and analytical technique, concentrations of all SVHC are <0.1% in the submitted sample(s)

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2.2 Results

1) The fifteen (15) Substances of Very High Concern (SVHC) content

Substance Name	CAS No.	Unit	MQL	Result	Classification
				No.1 [△]	
Anthracene	120-12-7	%	0.005	N.D.	PBT
4,4'-Diaminodiphenylmethane	101-77-9	%	0.005	N.D.	CMR
Dibutyl phthalate(DBP)	84-74-2	%	0.005	N.D.	CMR
Benzyl butyl phthalate (BBP)	85-68-7	%	0.005	N.D.	CMR
Cobalt dichloride*	7646-79-9	%	0.05	N.D.	CMR
Diarsenic pentaoxide*	1303-28-2	%	0.05	N.D.	CMR
Diarsenic trioxide*	1327-53-3	%	0.05	N.D.	CMR
Sodium dichromate, dehydrate [#]	7789-12-0, 10588-01-9	%	0.05	N.D.	CMR
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	%	0.005	N.D.	vPvB
Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	%	0.005	N.D.	CMR
Hexabromocyclododecane (HBCDD)	25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	%	0.005	N.D.	PBT
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	%	0.005	N.D.	PBT
Bis(tributyltin)oxide	56-35-9	%	0.005	N.D.	PBT
Lead hydrogen arsenate*	7784-40-9	%	0.05	N.D.	CMR
Triethyl arsenate*	15606-95-8	%	0.05	N.D.	CMR

Note : 1. N.D. = not detected (less than MQL)
 N.A.=Not applicable
 2. 1mg/kg=1ppm=0.0001%
 3. MQL=Method Quantitation Limit

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4. *The Substances are tested in term of their respective elements (e.g. As,Pb,Co).
5. #The Substances are tested in term of hexavalent chromium, Cr(VI).
6. [△]The samples was/were analyzed on behalf of the applicant as mixing sample in one testing.The above results was/were only given as the informality value.

2) The thirteen (13) Substances of Very High Concern (SVHC) content

Substance Name	CAS No.	Unit	MQL	Result	Classification
				No.1 [△]	
Anthracene oil(**)	90640-80-5	%	0.05	N.D.	PBT
Anthracene oil, anthracene paste, distn. Lights(**)	91995-17-4	%	0.05	N.D.	PBT
Anthracene oil, anthracene paste, anthracene fraction(**)	91995-15-2	%	0.05	N.D.	PBT
Anthracene oil, anthracene-low(**)	90640-82-7	%	0.05	N.D.	PBT
Anthracene oil, anthracene paste(**)	90640-81-6	%	0.05	N.D.	PBT
Pitch, coal tar, high-temp.(**)	65996-93-2	%	0.05	N.D.	PBT
DIBP (Di-isobutyl phthalate)	84-69-5	%	0.005	N.D.	Toxic to Reproduction Category 2
2,4-Dinitrotoluene	121-14-2	%	0.005	N.D.	Carcinogen Category 2
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	%	0.005	N.D.	Toxic to Reproduction Category 2
Lead chromate	7758-97-6	%	0.01	N.D.	Carcinogen Category 2; Toxic to Reproduction Category 1
Lead chromate molybdate sulphate red(C.I. Pigment Red 104)	12656-85-8	%	0.01	N.D.	Carcinogen Category 2; Toxic to Reproduction Category 1
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	%	0.01	N.D.	Carcinogen Category 2; Toxic to Reproduction Category 1
Acrylamide	79-06-1	%	0.01	N.D.	Carcinogen Category2; Mutagen Category 2

Note : 1. N.D. = not detected (less than MQL)
 N.A.=Not applicable

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2. 1mg/kg=1ppm=0.0001%
3. MQL=Method Quantitation Limit
4. (**): The concentrations of above-mentioned mixtures are evaluated per the gained composition rate between the selected marks and the mixtures.
5. Classification of this report in accordance with 67/548/EEC and Regulation (EC) No 1907/2006.
6. 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.
7. [△]The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.

3) The eight (8) Substances of Very High Concern (SVHC) content

Substance Name	CAS No.	Unit	MQL	Result	Classification
				No.1 [△]	
Trichloroethylene	79-01-6	%	0.05	N.D.	Carcinogenic category 2
Boric acid*	10043-35-3 11113-50-1	%	0.05	N.D.	Toxic for reproduction category 2
Disodium tetraborate, anhydrous*	1330-43-4 12179-04-3 1303-96-4	%	0.05	N.D.	Toxic for reproduction category 2
Tetraboron disodium heptaoxide, hydrate*	12267-73-1	%	0.05	N.D.	Toxic for reproduction category 2
Sodium chromate*	7775-11-3	%	0.05	N.D.	Carcinogenic category 2; mutagenic category 2; toxic for reproduction category 2
Potassium chromate*	7789-00-6	%	0.05	N.D.	Carcinogenic category 2; mutagenic category 2
Ammonium dichromate*	7789-09-5	%	0.05	N.D.	Carcinogenic category 2; mutagenic category 2; toxic for reproduction category 2

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Potassium dichromate*	7778-50-9	%	0.05	N.D.	Carcinogenic category 2; mutagenic category 2; toxic for reproduction category 2
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- Note :
1. N.D. = not detected (less than MQL)
N.A.=Not applicable
 2. 1mg/kg=1ppm=0.0001%
 3. MQL=Method Quantitation Limit
 4. *The Substances are tested in term of their respective elements (e.g. B, Cr).
 5. [△]The samples was/were analyzed on behalf of the applicant as mixing sample in one testing.The above results was/were only given as the informality value.

4) The eight (8) Substances of Very High Concern (SVHC) content

Substance Name	CAS No.	Unit	MQL	Result	Classification
				No.1 [△]	
Cobalt(II) sulphate*	10124-43-3	%	0.05	N.D.	CMR (carcinogen, cat. 2; toxic for reproduction, cat. 2)
Cobalt(II) dinitrate*	10141-05-6	%	0.05	N.D.	CMR (carcinogen, cat. 2; toxic for reproduction, cat. 2)
Cobalt(II) carbonate*	513-79-1	%	0.05	N.D.	CMR (carcinogen, cat. 2; toxic for reproduction, cat. 2)
Cobalt(II) diacetate*	71-48-7	%	0.05	N.D.	CMR (carcinogen, cat. 2; toxic for reproduction, cat. 2)
2-Methoxyethanol	109-86-4	%	0.05	N.D.	CMR (toxic for reproduction, cat. 2)
2-Ethoxyethanol	110-80-5	%	0.05	N.D.	CMR (toxic for reproduction, cat. 2)

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Chromium trioxide*	1333-82-0	%	0.05	N.D.	CMR (carcinogen, cat. 1; mutagen, cat. 2)
Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2	%	0.05	N.D.	CMR (carcinogen, cat. 2)

- Note :
1. N.D. = not detected (less than MQL)
N.A.=Not applicable
 2. 1mg/kg=1ppm=0.0001%
 3. MQL=Method Quantitation Limit
 4. *The Substances are tested in term of their respective elements (e.g.Co, Cr).
 5. [△]The samples was/were analyzed on behalf of the applicant as mixing sample in one testing.The above results was/were only given as the informality value.

5) The seven (7) Substances of Very High Concern (SVHC) content

Substance Name	CAS No.	Unit	MQL	Result	Classification
				No.1 [△]	
2-ethoxyethylacetate	111-15-9	%	0.05	N.D.	CMR (toxic for reproduction, cat. 2)
1,2-Benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters (DHNUP)	68515-42-4	%	0.05	N.D.	CMR (toxic for reproduction, cat. 2)
hydrazine	7803-57-8 302-01-2	%	0.05	N.D.	CMR (carcinogen, cat. 2)
1-methyl-2-pyrrolidone	872-50-4	%	0.05	N.D.	CMR (toxic for reproduction, cat. 2)
1,2,3-trichloropropane	96-18-4	%	0.05	N.D.	CMR (carcinogen, cat. 2; toxic for reproduction, cat. 2)

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1,2-Benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.05	N.D.	CMR (toxic for reproduction, cat. 2)
Strontium chromate *	7789-06-2	%	0.05	N.D.	CMR (carcinogen, cat. 2)

- Note :
1. N.D. = not detected (less than MQL)
N.A.=Not applicable
 2. 1mg/kg=1ppm=0.0001%
 3. MQL=Method Quantitation Limit
 4. *The Substances are tested in term of their respective elements (e.g. B, Cr).
 5. Δ The samples was/were analyzed on behalf of the applicant as mixing sample in one testing.The above results was/were only given as the informality value.

6) The twenty (20) Substances of Very High Concern (SVHC) content

Substance Name	CAS No.	Unit	MQL	Result	Classification
				No.1 Δ	
1,2-Dichloroethane	107-06-2	%	0.050	N.D.	carcinogenic
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	%	0.050	N.D.	carcinogenic
2-Methoxyaniline o-Anisidine	90-04-0	%	0.050	N.D.	carcinogenic
4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	%	0.050	N.D.	equivalent level of concern
Aluminosilicate Refractory Ceramic Fibres(RCF)*	--	%	0.005	N.D.	carcinogenic
Arsenic acid*	7778-39-4	%	0.005	N.D.	carcinogenic
Bis(2-methoxyethyl) ether	111-96-6	%	0.050	N.D.	toxic for reproduction

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Bis(2-methoxyethyl) phthalate	117-82-8	%	0.050	N.D.	toxic for reproduction
Calcium arsenate*	7778-44-1	%	0.005	N.D.	carcinogenic
Dichromium tris(chromate) *	24613-89-6	%	0.005	N.D.	carcinogenic
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	%	0.050	N.D.	carcinogenic
Lead diazide*	13424-46-9	%	0.005	N.D.	toxic for reproduction
Lead dipicrate*	6477-64-1	%	0.005	N.D.	toxic for reproduction
Lead styphnate*	15245-44-0	%	0.005	N.D.	toxic for reproduction
N,N-dimethylacetamide (DMAC)	127-19-5	%	0.050	N.D.	toxic for reproduction
Pentazinc chromate octahydroxide*	49663-84-5	%	0.005	N.D.	carcinogenic
Phenolphthalein	77-09-8	%	0.050	N.D.	carcinogenic
Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	%	0.005	N.D.	carcinogenic
Trilead diarsenate*	3687-31-8	%	0.005	N.D.	carcinogenic & toxic for reproduction
Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)*	--	%	0.005	N.D.	carcinogenic

- Note : 1. N.D. = not detected (less than MQL)
 N.A.=Not applicable
 2. 1mg/kg=1ppm=0.0001%
 3. MQL=Method Quantitation Limit
 4. *The Substances are tested in term of their respective elements (e.g. As,Pb,Cr,Al,Ca,K,Zr).
 5. [△]The samples was/were analyzed on behalf of the applicant as mixing sample in one testing.The above results was/were only given as the informality value.

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7) The thirteen (13) Substances of Very High Concern (SVHC) content

Substance Name	CAS No.	Unit	MQL	Result	Classification
				No.1 [△]	
1,2-bis(2methoxy-ethoxy) ethane (TEGDME; triglyme)	112-49-2	%	0.050	N.D.	CMR
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	%	0.050	N.D.	CMR
4,4'-bis(dimethylamino)-4''(methyl-amino)trityl alcohol (C.I. Solvent Violet 8)	561-41-1	%	0.005	N.D.	CMR
4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	%	0.050	N.D.	CMR
4-[4,4'-bis(dimethyl-amino) benzhydrylidene]cyclohexa-2,5-dien- 1-ylidene]dimethyl ammonium chloride (C.I. Basic Violet 3)	548-62-9	%	0.005	N.D.	CMR
[4-[[4-anilino-1-naphthyl] [4(dimethylamino)phenyl] methylene]cyclohexa-2,5-dien-1ylidene] dimethyl ammonium chloride (C.I. Basic Blue 26)	2580-56-5	%	0.005	N.D.	CMR
N,N,N',N'-tetramethyl-4,4'methylenedianiline (Michler's base)	101-61-1	%	0.005	N.D.	CMR
α,α-Bis[4(dimethylamino) phenyl]-4-(phenylamino) naphthalene 1-methanol (C.I. Solvent Blue 4)	6786-83-0	%	0.005	N.D.	CMR
Diboron trioxide*	1303-86-2	%	0.050	N.D.	CMR
Formamide	75-12-7	%	0.005	N.D.	CMR

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Lead(II) bis(methanesulfonate) *	17570-76-2	%	0.050	N.D.	CMR
TGIC (1,3,5tris(oxiranyl methyl)-1,3,5triazine- 2,4,6(1H,3H,5H)trione)	2451-62-9	%	0.050	N.D.	CMR
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	%	0.050	N.D.	CMR

- Note :
1. N.D. = not detected (less than MQL)
N.A.=Not applicable
 2. 1mg/kg=1ppm=0.0001%
 3. MQL=Method Quantitation Limit
 4. *The Substances are tested in term of their respective elements (e.g. Pb,B).
 5. [△]The samples was/were analyzed on behalf of the applicant as mixing sample in one testing.The above results was/were only given as the informality value.

8) The fifty four (54) Substances of Very High Concern (SVHC) content

Substance Name	CAS No.	Unit	MQL	Result	Classification
				No.1 [△]	
Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	%	0.005	N.D.	PBT ; vPvB
Pentacosfluorotridecanoic acid	72629-94-8	%	0.050	N.D.	vPvB
Tricosfluorododecanoic acid	307-55-1	%	0.050	N.D.	vPvB
Henicosfluoroundecanoic acid	2058-94-8	%	0.050	N.D.	vPvB
Heptacosfluorotetradecanoic acid	376-06-7	%	0.050	N.D.	vPvB
4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	-	%	0.050	N.D.	Equivalent level of concern - probable serious effects on the environment

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Fl.2 south Huoju Building, No.181 canghai Rd., Jiangdong High-tech Park Ningbo China

Tel: +86-574-87912121 (16 lines)

Fax: +86-574-87907993

Complaint line: +86-574-87908003

E-mail: cts@cts-lab.com

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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	-	%	0.050	N.D.	Equivalent level of concern - probable serious effects on the environment
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	%	0.005	N.D.	Equivalent level of concern - probable serious effects on human health
Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7	%	0.005	N.D.	Equivalent level of concern - probable serious effects on human health
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	%	0.005	N.D.	Equivalent level of concern - probable serious effects on human health
Methoxy acetic acid	625-45-6	%	0.050	N.D.	Toxic for reproduction ; equivalent level of concern -probable serious effects on human health and the environment
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	%	0.050	N.D.	Toxic for reproduction
Diisopentylphthalate (DIPP)	605-50-5	%	0.005	N.D.	Toxic for reproduction
N-pentyl-isopentylphthalate	776297-69-9	%	0.050	N.D.	Toxic for reproduction
1,2-Diethoxyethane	629-14-1	%	0.050	N.D.	Toxic for reproduction

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N,N-dimethylformamide; dimethyl formamide	68-12-2	%	0.050	N.D.	Toxic for reproduction
Dibutyltin dichloride (DBT)	683-18-1	%	0.005	N.D.	Toxic for reproduction
Acetic acid, lead salt, basic*	51404-69-4	%	0.050	N.D.	Toxic for reproduction
Basic lead carbonate (trilead bis(carbonate)dihydroxide) *	1319-46-6	%	0.050	N.D.	Toxic for reproduction
Lead oxide sulfate (basic lead sulfate) *	12036-76-9	%	0.050	N.D.	Toxic for reproduction
[Phthalato(2-)]dioxotrilead (dibasic lead phthalate) *	69011-06-9	%	0.050	N.D.	Toxic for reproduction
Dioxobis(stearato)trilead*	12578-12-0	%	0.050	N.D.	Toxic for reproduction
Fatty acids, C16-18, lead salts*	91031-62-8	%	0.050	N.D.	Toxic for reproduction
Lead bis(tetrafluoroborate) *	13814-96-5	%	0.050	N.D.	Toxic for reproduction
Lead cyanamate*	20837-86-9	%	0.050	N.D.	Toxic for reproduction
Lead dinitrate*	10099-74-8	%	0.050	N.D.	Toxic for reproduction
Lead oxide (lead monoxide) *	1317-36-8	%	0.050	N.D.	Toxic for reproduction
Lead tetroxide (orange lead) *	1314-41-6	%	0.050	N.D.	Toxic for reproduction
Lead titanium trioxide*	12060-00-3	%	0.050	N.D.	Toxic for reproduction
Lead Titanium Zirconium Oxide*	12626-81-2	%	0.050	N.D.	Toxic for reproduction
Pentalead tetraoxide sulphate*	12065-90-6	%	0.050	N.D.	Toxic for reproduction
Pyrochlore, antimony lead yellow*	8012-00-8	%	0.050	N.D.	Toxic for reproduction

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Silicic acid, barium salt, lead-doped*	68784-75-8	%	0.050	N.D.	Toxic for reproduction
Silicic acid, lead salt*	11120-22-2	%	0.050	N.D.	Toxic for reproduction
Sulfurous acid, lead salt, dibasic*	62229-08-7	%	0.050	N.D.	Toxic for reproduction
Tetraethyllead*	78-00-2	%	0.050	N.D.	Toxic for reproduction
Tetralead trioxide sulphate*	12202-17-4	%	0.050	N.D.	Toxic for reproduction
Trilead dioxide phosphonate*	12141-20-7	%	0.050	N.D.	Toxic for reproduction
Furan	110-00-9	%	0.050	N.D.	Carcinogenic
Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	%	0.050	N.D.	Carcinogenic ; Mutagenic
Diethyl sulphate	64-67-5	%	0.050	N.D.	Carcinogenic ; Mutagenic
Dimethyl sulphate	77-78-1	%	0.050	N.D.	Carcinogenic
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	%	0.050	N.D.	Toxic for reproduction
Dinoseb	88-85-7	%	0.050	N.D.	Toxic for reproduction
4,4'-methylenedi-o-toluidine	838-88-0	%	0.005	N.D.	Carcinogenic
4,4'-oxydianiline and its salts	101-80-4	%	0.005	N.D.	Carcinogenic ; Mutagenic
4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	%	0.005	N.D.	Carcinogenic
4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	%	0.005	N.D.	Carcinogenic
6-methoxy-m-toluidine (p-cresidine)	120-71-8	%	0.005	N.D.	Carcinogenic
Biphenyl-4-ylamine	92-67-1	%	0.005	N.D.	Carcinogenic

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o-aminoazotoluene	97-56-3	%	0.005	N.D.	Carcinogenic
o-Toluidine; 2-Aminotoluene	95-53-4	%	0.005	N.D.	Carcinogenic
N-methylacetamide	79-16-3	%	0.005	N.D.	Toxic for reproduction
1-bromopropane; n-propyl bromide	106-94-5	%	0.005	N.D.	Toxic for reproduction

- Note :
1. N.D. = not detected (less than MQL)
N.A.=Not applicable
 2. 1mg/kg=1ppm=0.0001%
 3. MQL=Method Quantitation Limit
 4. *The Substances are tested in term of their respective elements (e.g. Pb,Ba,Zr,Ti).
 5. [△]The samples was/were analyzed on behalf of the applicant as mixing sample in one testing.The above results was/were only given as the informality value.

9) The six (6) Substances of Very High Concern (SVHC) content

Substance Name	CAS No.	Unit	MQL	Result	Classification
				No.1 [△]	
Cadmium	7440-43-9	%	0.05	N.D.	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
Cadmium oxide *	1306-19-0	%	0.05	N.D.	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
Pentadecafluorooctanoic acid (PFOA)	335-67-1	%	0.05	N.D.	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	%	0.05	N.D.	Toxic for reproduction (Article 57 c); PBT (Article 57 d)

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Dipentyl phthalate (DPP)	131-18-0	%	0.05	N.D.	Toxic for reproduction (Article 57 c)
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	N.D.	Equivalent level of concern having probable serious effects to the environment (Article 57 f)

- Note :
1. N.D. = not detected (less than MQL)
N.A.=Not applicable
 2. 1mg/kg=1ppm=0.0001%
 3. MQL=Method Quantitation Limit
 4. *The Substances are tested in term of their respective elements (e.g. Cd).
 5. Δ The samples was/were analyzed on behalf of the applicant as mixing sample in one testing.The above results was/were only given as the informality value.

Test Part Description :

No.1 : Vandal resistant pushbutton switch (mixed)

Written by: *Jessie*

Inspected by: *Suzei*

Approved by: *Vijay*



*** End of Report ***

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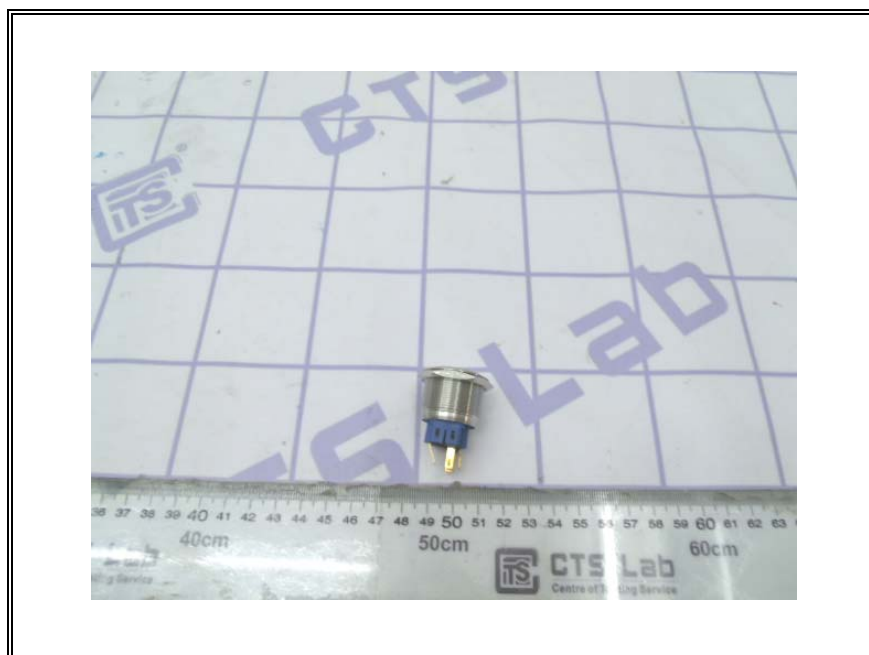
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3 Sample Reference Photo



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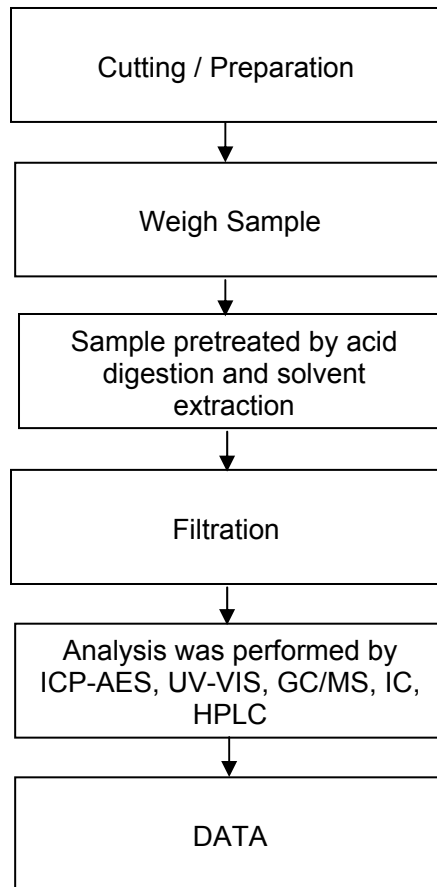
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4 Attachment

Analytical flow chart of SVHC



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