



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

TEST REPORT

Test Report Number : CTS181219043-C

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

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1 General Information

1.1 Application Details

Name :
Address :

Contact :
Telephone :
Fax :
Mobile telephone :
Email :

1.2 Manufacturer & Buyer

Manufacturer name :
Address : /
Contact : /
Telephone : /
Fax : /
Mobile telephone : /
Email : /
Buyer name : /

1.3 Description of the Test Item

Sample name : 3 in 1 Charging Cable
Model No. : S1120, S1122, S1072, SK1012
Brand name : /
Condition of sample(s) : EFFECTIVE

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2 Test Results

2.1 General Information

2.1.1 Sample Receiving Date

Dec. 19, 2018

2.1.2 Testing Period

Dec. 19, 2018 to Jan. 02, 2019

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.
- 10) As specified by applicant, based on the list of the tenth published by European chemicals agency (ECHA) on 2013 December 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.
- 11) As specified by applicant, based on the list of the eleventh published by European chemicals agency (ECHA) on 2014 June for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the four (4) Substances of Very High Concern (SVHC) content in the submitted sample.
- 12) As specified by applicant, based on the list of the twelfth published by European chemicals agency (ECHA) on 2014 December 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.
- 13) As specified by applicant, based on the list of the thirteenth published by European chemicals agency (ECHA) on 2015 June for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the two (2) Substances of Very High Concern (SVHC) content in the submitted sample.
- 14) As specified by applicant, based on the list of the fourteenth published by European chemicals agency (ECHA) on 2015 October for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the five (5) Substances of Very High Concern (SVHC) content in the submitted sample.
- 15) As specified by applicant, based on the list of the fifteenth published by European chemicals agency (ECHA) on 2016 June for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the one (1) Substance of Very High Concern (SVHC) content in the submitted sample.
- 16) As specified by applicant, based on the list of the sixteenth published by European chemicals agency (ECHA) on 2016 December for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the four (4) Substances of Very High Concern (SVHC) content in the submitted sample.
- 17) As specified by applicant, based on the list of the seventeenth published by European chemicals agency (ECHA) on 2017 June for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the one (1) Substance of Very High Concern (SVHC) content in the submitted sample.
- 18) As specified by applicant, based on the list of the eighteenth published by European chemicals agency (ECHA) on 2017 December for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the seven (7) Substance of Very High Concern (SVHC) content in the submitted sample.
- 19) As specified by applicant, based on the list of the nineteenth published by European chemicals agency (ECHA) on 2018 June for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the ten (10) Substance of Very High Concern

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(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

No.	Substance Name	CAS No.	Unit	MQL	Result	Classification
					No.1 [△]	
1	Anthracene	120-12-7	%	0.005	N.D.	PBT
2	4,4'-Diaminodiphenylmethane	101-77-9	%	0.005	N.D.	CMR
3	Dibutyl phthalate(DBP)	84-74-2	%	0.005	N.D.	CMR; Equivalent level of concern having probable serious effects to human health and environment (Article 57 f)
4	Benzyl butyl phthalate (BBP)	85-68-7	%	0.005	N.D.	CMR; Equivalent level of concern having probable serious effects to human health and environment (Article 57 f)
5	Cobalt dichloride*	7646-79-9	%	0.05	N.D.	CMR
6	Diarsenic pentaoxide*	1303-28-2	%	0.05	N.D.	CMR
7	Diarsenic trioxide*	1327-53-3	%	0.05	N.D.	CMR
8	Sodium dichromate, dehydrate [#]	7789-12-0, 10588-01-9	%	0.05	N.D.	CMR
9	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	%	0.005	N.D.	vPvB

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10	Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	%	0.005	0.010	CMR; Equivalent level of concern having probable serious effects to human health and environment (Article 57 f)
11	Hexabromocyclododecane (HBCDD)	25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	%	0.005	N.D.	PBT
12	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	%	0.005	N.D.	PBT
13	Bis(tributyltin)oxide	56-35-9	%	0.005	N.D.	PBT
14	Lead hydrogen arsenate*	7784-40-9	%	0.05	N.D.	CMR
15	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
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 Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.

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

No.	Substance Name	CAS No.	Unit	MQL	Result	Classification
					No.1 [△]	
16	Anthracene oil(**)	90640-80-5	%	0.05	N.D.	PBT
17	Anthracene oil, anthracene paste,	91995-17-4	%	0.05	N.D.	PBT
18	Anthracene oil, anthracene paste, anthracene fraction(**)	91995-15-2	%	0.05	N.D.	PBT

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19	Anthracene oil, anthracene-low(**)	90640-82-7	%	0.05	N.D.	PBT
20	Anthracene oil, anthracene paste(**)	90640-81-6	%	0.05	N.D.	PBT
21	Pitch, coal tar, high-temp.(**)	65996-93-2	%	0.05	N.D.	PBT
22	DIBP (Di-isobutyl phthalate)	84-69-5	%	0.005	N.D.	Toxic to Reproduction Category 2; Equivalent level of concern having probable serious effects to human health and environment (Article 57 f)
23	2,4-Dinitrotoluene	121-14-2	%	0.005	N.D.	Carcinogen Category 2
24	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	%	0.005	N.D.	Toxic to Reproduction Category 2
25	Lead chromate	7758-97-6	%	0.01	N.D.	Carcinogen Category 2; Toxic to Reproduction Category 1
26	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
27	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	%	0.01	N.D.	Carcinogen Category 2; Toxic to Reproduction Category 1
28	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
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 Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.

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

No.	Substance Name	CAS No.	Unit	MQL	Result	Classification
					No.1 [△]	
29	Trichloroethylene	79-01-6	%	0.05	N.D.	Carcinogenic category 2
30	Boric acid*	10043-35-3 11113-50-1	%	0.05	N.D.	Toxic for reproduction category 2
31	Disodium tetraborate, anhydrous*	1330-43-4 12179-04-3 1303-96-4	%	0.05	N.D.	Toxic for reproduction category 2
32	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	%	0.05	N.D.	Toxic for reproduction category 2
33	Sodium chromate*	7775-11-3	%	0.05	N.D.	Carcinogenic category 2; mutagenic category 2; toxic for reproduction category 2
34	Potassium chromate*	7789-00-6	%	0.05	N.D.	Carcinogenic category 2; mutagenic category 2
35	Ammonium dichromate*	7789-09-5	%	0.05	N.D.	Carcinogenic category 2; mutagenic category 2; toxic for reproduction category 2
36	Potassium dichromate*	7778-50-9	%	0.05	N.D.	Carcinogenic category 2; mutagenic category 2; toxic for reproduction category 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. [△]The Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.

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

No.	Substance Name	CAS No.	Unit	MQL	Result	Classification
					No.1 [△]	
37	Cobalt(II) sulphate*	10124-43-3	%	0.05	N.D.	CMR (carcinogen, cat. 2; toxic for reproduction, cat. 2)
38	Cobalt(II) dinitrate*	10141-05-6	%	0.05	N.D.	CMR (carcinogen, cat. 2; toxic for reproduction, cat. 2)
39	Cobalt(II) carbonate*	513-79-1	%	0.05	N.D.	CMR (carcinogen, cat. 2; toxic for reproduction, cat. 2)
40	Cobalt(II) diacetate*	71-48-7	%	0.05	N.D.	CMR (carcinogen, cat. 2; toxic for reproduction, cat. 2)
41	2-Methoxyethanol	109-86-4	%	0.05	N.D.	CMR (toxic for reproduction, cat. 2)
42	2-Ethoxyethanol	110-80-5	%	0.05	N.D.	CMR (toxic for reproduction, cat. 2)
43	Chromium trioxide*	1333-82-0	%	0.05	N.D.	CMR (carcinogen, cat. 1; mutagen, cat. 2)
44	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).

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5. [△]The Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.

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

No.	Substance Name	CAS No.	Unit	MQL	Result	Classification
					No.1 [△]	
45	2-ethoxyethylacetate	111-15-9	%	0.05	N.D.	CMR (toxic for reproduction, cat. 2)
46	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)
47	hydrazine	7803-57-8 302-01-2	%	0.05	N.D.	CMR (carcinogen, cat. 2)
48	1-methyl-2-pyrrolidone	872-50-4	%	0.05	N.D.	CMR (toxic for reproduction, cat. 2)
49	1,2,3-trichloropropane	96-18-4	%	0.05	N.D.	CMR (carcinogen, cat. 2; toxic for reproduction, cat. 2)
50	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)
51	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).

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5. [△]The Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.

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

No.	Substance Name	CAS No.	Unit	MQL	Result	Classification
					No.1 [△]	
52	1,2-Dichloroethane	107-06-2	%	0.050	N.D.	carcinogenic
53	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	%	0.050	N.D.	carcinogenic
54	2-Methoxyaniline o-Anisidine	90-04-0	%	0.050	N.D.	carcinogenic
55	4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol)	140-66-9	%	0.050	N.D.	equivalent level of concern
56	Aluminosilicate Refractory Ceramic Fibres(RCF)*	--	%	0.005	N.D.	carcinogenic
57	Arsenic acid*	7778-39-4	%	0.005	N.D.	carcinogenic
58	Bis(2-methoxyethyl) ether	111-96-6	%	0.050	N.D.	toxic for reproduction
59	Bis(2-methoxyethyl) phthalate	117-82-8	%	0.050	N.D.	toxic for reproduction
60	Calcium arsenate*	7778-44-1	%	0.005	N.D.	carcinogenic
61	Dichromium tris(chromate) *	24613-89-6	%	0.005	N.D.	carcinogenic
62	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	%	0.050	N.D.	carcinogenic
63	Lead diazide*	13424-46-9	%	0.005	N.D.	toxic for reproduction

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64	Lead dipicrate*	6477-64-1	%	0.005	N.D.	toxic for reproduction
65	Lead styphnate*	15245-44-0	%	0.005	N.D.	toxic for reproduction
66	N,N-dimethylacetamide (DMAC)	127-19-5	%	0.050	N.D.	toxic for reproduction
67	Pentazinc chromate octahydroxide*	49663-84-5	%	0.005	N.D.	carcinogenic
68	Phenolphthalein	77-09-8	%	0.050	N.D.	carcinogenic
69	Potassium hydroxyoctaoxodiz incatedichromate*	11103-86-9	%	0.005	N.D.	carcinogenic
70	Trilead diarsenate*	3687-31-8	%	0.005	N.D.	carcinogenic & toxic for reproduction
71	Zirconia Aluminosilicate Refractory Ceremic 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 Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.

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

No.	Substance Name	CAS No.	Unit	MQL	Result	Classification
					No.1 [△]	
72	1,2-bis(2methoxy-ethoxy) ethane (TEGDME; triglyme)	112-49-2	%	0.050	N.D.	CMR
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	%	0.050	N.D.	CMR
74	4,4'-bis(dimethylamino)-4''(methyl-amino)trityl alcohol (C.I. Solvent Violet 8)	561-41-1	%	0.005	N.D.	CMR
75	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	%	0.050	N.D.	CMR
76	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
77	[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
78	N,N,N',N'-tetramethyl-4,4'methylenedianiline (Michler's base)	101-61-1	%	0.005	N.D.	CMR
79	α,α-Bis[4(dimethylamino) phenyl]-4-(phenylamino) naphthalene1-methanol (C.I. Solvent Blue 4)	6786-83-0	%	0.005	N.D.	CMR
80	Diboron trioxide*	1303-86-2	%	0.050	N.D.	CMR
81	Formamide	75-12-7	%	0.005	N.D.	CMR

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82	Lead(II) bis(methanesulfonate) *	17570-76-2	%	0.050	N.D.	CMR
83	TGIC (1,3,5tris(oxiranyl methyl)-1,3,5triazine-2,4,6(1H,3H,5H)trione)	2451-62-9	%	0.050	N.D.	CMR
84	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. ^ΔThe Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.

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

No.	Substance Name	CAS No.	Unit	MQL	Result	Classification
					No.1 ^Δ	
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	%	0.005	N.D.	PBT ; vPvB
86	Pentacosafuorotridecanoic acid	72629-94-8	%	0.050	N.D.	vPvB
87	Tricosafuorododecanoic acid	307-55-1	%	0.050	N.D.	vPvB
88	Henicosafuoroundecanoic acid	2058-94-8	%	0.050	N.D.	vPvB
89	Heptacosafuorotetradecanoic acid	376-06-7	%	0.050	N.D.	vPvB

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90	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
91	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
92	Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	%	0.005	N.D.	Equivalent level of concern - probable serious effects on human health
93	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	%	0.005	N.D.	Equivalent level of concern - probable serious effects on human health
94	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

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95	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
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	%	0.050	N.D.	Toxic for reproduction
97	Diisopentylphthalate (DIPP)	605-50-5	%	0.005	N.D.	Toxic for reproduction
98	N-pentyl-isopentylphthalate	776297-69-9	%	0.050	N.D.	Toxic for reproduction
99	1,2-Diethoxyethane	629-14-1	%	0.050	N.D.	Toxic for reproduction
100	N,N-dimethylformamide; dimethyl formamide	68-12-2	%	0.050	N.D.	Toxic for reproduction
101	Dibutyltin dichloride (DBT)	683-18-1	%	0.005	N.D.	Toxic for reproduction
102	Acetic acid, lead salt, basic*	51404-69-4	%	0.050	N.D.	Toxic for reproduction
103	Basic lead carbonate (trilead bis(carbonate)dihydroxide) *	1319-46-6	%	0.050	N.D.	Toxic for reproduction
104	Lead oxide sulfate (basic lead sulfate) *	12036-76-9	%	0.050	N.D.	Toxic for reproduction
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate) *	69011-06-9	%	0.050	N.D.	Toxic for reproduction
106	Dioxobis(stearato)trilead*	12578-12-0	%	0.050	N.D.	Toxic for reproduction
107	Fatty acids, C16-18, lead salts*	91031-62-8	%	0.050	N.D.	Toxic for reproduction
108	Lead bis(tetrafluoroborate) *	13814-96-5	%	0.050	N.D.	Toxic for reproduction

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109	Lead cyanamidate*	20837-86-9	%	0.050	N.D.	Toxic for reproduction
110	Lead dinitrate*	10099-74-8	%	0.050	N.D.	Toxic for reproduction
111	Lead oxide (lead monoxide) *	1317-36-8	%	0.050	N.D.	Toxic for reproduction
112	Lead tetroxide (orange lead) *	1314-41-6	%	0.050	N.D.	Toxic for reproduction
113	Lead titanium trioxide*	12060-00-3	%	0.050	N.D.	Toxic for reproduction
114	Lead Titanium Zirconium Oxide*	12626-81-2	%	0.050	N.D.	Toxic for reproduction
115	Pentalead tetraoxide sulphate*	12065-90-6	%	0.050	N.D.	Toxic for reproduction
116	Pyrochlore, antimony lead yellow*	8012-00-8	%	0.050	N.D.	Toxic for reproduction
117	Silicic acid, barium salt, lead-doped*	68784-75-8	%	0.050	N.D.	Toxic for reproduction
118	Silicic acid, lead salt*	11120-22-2	%	0.050	N.D.	Toxic for reproduction
119	Sulfurous acid, lead salt, dibasic*	62229-08-7	%	0.050	N.D.	Toxic for reproduction
120	Tetraethyllead*	78-00-2	%	0.050	N.D.	Toxic for reproduction
121	Tetralead trioxide sulphate*	12202-17-4	%	0.050	N.D.	Toxic for reproduction
122	Trilead dioxide phosphonate*	12141-20-7	%	0.050	N.D.	Toxic for reproduction
123	Furan	110-00-9	%	0.050	N.D.	Carcinogenic
124	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	%	0.050	N.D.	Carcinogenic ; Mutagenic
125	Diethyl sulphate	64-67-5	%	0.050	N.D.	Carcinogenic ; Mutagenic
126	Dimethyl sulphate	77-78-1	%	0.050	N.D.	Carcinogenic

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127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	%	0.050	N.D.	Toxic for reproduction
128	Dinoseb	88-85-7	%	0.050	N.D.	Toxic for reproduction
129	4,4'-methylenedi-o-toluidine	838-88-0	%	0.005	N.D.	Carcinogenic
130	4,4'-oxydianiline and its salts	101-80-4	%	0.005	N.D.	Carcinogenic ; Mutagenic
131	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	%	0.005	N.D.	Carcinogenic
132	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	%	0.005	N.D.	Carcinogenic
133	6-methoxy-m-toluidine (p-cresidine)	120-71-8	%	0.005	N.D.	Carcinogenic
134	Biphenyl-4-ylamine	92-67-1	%	0.005	N.D.	Carcinogenic
135	o-aminoazotoluene	97-56-3	%	0.005	N.D.	Carcinogenic
136	o-Toluidine; 2-Aminotoluene	95-53-4	%	0.005	N.D.	Carcinogenic
137	N-methylacetamide	79-16-3	%	0.005	N.D.	Toxic for reproduction
138	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. ^ΔThe Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.

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

No.	Substance Name	CAS No.	Unit	MQL	Result	Classification
					No.1 [△]	
139	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)
140	Cadmium oxide *	1306-19-0	%	0.05	N.D.	Carcinogenic (Article 57 a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
141	Pentadecafluorooctanoic acid (PFOA)	335-67-1	%	0.05	N.D.	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
142	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	%	0.05	N.D.	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
143	Dipentyl phthalate (DPP)	131-18-0	%	0.05	N.D.	Toxic for reproduction (Article 57 c)
144	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

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4. *The Substances are tested in term of their respective elements (e.g. Cd).
5. ^ΔThe Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.

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

No.	Substance Name	CAS No.	Unit	MQL	Result	Classification
					No.1 ^Δ	
145	Cadmium sulphide*	1306-23-6	%	0.05	N.D.	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
146	Dihexyl phthalate (DnHP)	84-75-3	%	0.05	N.D.	Toxic for reproduction (Article 57 c)
147	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	N.D.	Carcinogenic (Article 57a)
148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	%	0.05	N.D.	Carcinogenic (Article 57a)
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	%	0.05	N.D.	Toxic for reproduction (Article 57 c)
150	Lead diacetate*	301-04-2	%	0.05	N.D.	Toxic for reproduction (Article 57 c)

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151	Trixylyl phosphate	25155-23-1	%	0.05	N.D.	Toxic for reproduction (Article 57 c)
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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. Pb,Cd).
5. ^ΔThe Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.

11) The four (4) Substances of Very High Concern (SVHC) content

No.	Substance Name	CAS No.	Unit	MQL	Result	Classification
					No.1 ^Δ	
152	Sodium perborate; perboric acid, sodium salt*	--	%	0.05	N.D.	Toxic for reproduction (Article 57 c)
153	Sodium peroxometaborate*	7632-04-4	%	0.05	N.D.	Toxic for reproduction (Article 57 c)
154	Cadmium chloride*	10108-64-2	%	0.05	N.D.	Carcinogenic (Article 57a); Mutagenic (Article 57(b); Toxic for Reproduction (Article 57(c); Equivalent level of concern having probable serious effects to human health (Article 57 f)

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155	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.05	N.D.	Toxic for reproduction (Article 57 c)
-----	--	------------	---	------	------	---------------------------------------

- 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. Na,Cd).
 5. ^ΔThe Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.

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

No.	Substance Name	CAS No.	Unit	MQL	Result	Classification
					No.1 ^Δ	
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	%	0.05	N.D.	PBT;vPvB
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	%	0.05	N.D.	PBT;vPvB
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	%	0.05	N.D.	Toxic for reproduction (Article 57 c)
159	Cadmium fluoride*	7790-79-6	%	0.05	N.D.	CMR; Equivalent level of concern having probable serious effects to human health and environment (Article 57 f)

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160	Cadmium sulphate*	10124-36-4; 31119-53-6	%	0.05	N.D.	CMR; Equivalent level of concern having probable serious effects to human health and environment (Article 57 f)
161	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)	--	%	0.05	N.D.	Toxic for reproduction (Article 57 c)

- 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, Sn).
 5. ^ΔThe Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.

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

No.	Substance Name	CAS No.	Unit	MQL	Result	Classification
					No.1 ^Δ	
162	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	%	0.05	N.D.	Toxic for Reproduction (Article 57 c)

The measurement results only apply to the submitted samples.

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163	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]	--	%	0.05	N.D.	vPvB (Article 57 e)
-----	---	----	---	------	------	---------------------

- 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. ^ΔThe Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.

14) The five (5) Substances of Very High Concern (SVHC) content

No.	Substance Name	CAS No.	Unit	MQL	Result	Classification
					No.1 ^Δ	
164	1,3-propanesultone	1120-71-4	%	0.05	N.D.	Carcinogenic (Article 57 a)
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	%	0.05	N.D.	vPvB (Article 57 e)
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	%	0.05	N.D.	vPvB (Article 57 e)

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167	Nitrobenzene	98-95-3	%	0.05	N.D.	Toxic for reproduction (Article 57 c)
168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-heptafluorooctanoic acid and its sodium and ammonium salts*	375-95-1 21049-39-8 4149-60-4	%	0.05	N.D.	Toxic for reproduction (Article 57 c); PBT (Article 57 d)

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. Na).
5. [△]The Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.

15) The one (1) Substance of Very High Concern (SVHC) content

No.	Substance Name	CAS No.	Unit	MQL	Result	Classification
					No.1 [△]	
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	%	0.05	N.D.	CMT, PBT, vPvB

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 Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.

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16) The four (4) Substances of Very High Concern (SVHC) content

No.	Substance Name	CAS No.	Unit	MQL	Result	Classification
					No.1 [△]	
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	%	0.05	N.D.	Toxic for reproduction (Article 57 c)
171	nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	%	0.05	N.D.	Toxic for reproduction (Article 57 c) PBT(Article 57 d)
172	4-heptylphenol, branched and linear (4-HPbl)	--	%	0.05	N.D.	Equivalent level of concern having probable serious effects to human health (Article 57 f)
173	p-(1,1-dimethylpropyl)phenol	80-46-6	%	0.05	N.D.	Equivalent level of concern having probable serious effects to human health (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. Na).
5. [△]The Testing results are based on the mixing of the sample
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17) The one (1) Substance of Very High Concern (SVHC) content

No.	Substance Name	CAS No.	Unit	MQL	Result	Classification
					No.1 [△]	
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	355-46-4	%	0.05	N.D.	vPvB (Article 57 e)

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 Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.

18) The seven (7) Substance of Very High Concern (SVHC) content

No.	Substance Name	CAS No.	Unit	MQL	Result	Classification
					No.1 [△]	
175	Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	13560-89-9 ; 135821-74-8 ; 135821-03-3	%	0.05	N.D.	vPvB(Article 57 e)
176	Benz[a]anthracene	56-55-3	%	0.05	N.D.	CMR (Article 57a), PBT (Article 57d), vPvB (Article 57e)
177	Cadmium nitrate*	10325-94-7	%	0.05	N.D.	CMR (Article 57a), CMR (Article 57b), (Article 57(f) - human health)
178	Cadmium carbonate*	513-78-0	%	0.05	N.D.	CMR (Article 57a), CMR (Article 57b), (Article 57(f) - human health)

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179	Cadmium hydroxide*	21041-95-2	%	0.05	N.D.	CMR (Article 57a), CMR (Article 57b), (Article 57(f) - human health)
180	Chrysene	218-01-9	%	0.05	N.D.	CMR (Article 57a), PBT (Article 57d), vPvB (Article 57e)
181	Reaction products of 1,3,4- thiadiazolidine-2,5-dithione, formaldehyde and 4- heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	%	0.05	N.D.	EDCS (Article 57(f) – environment)

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. ^ΔThe Testing results are based on the mixing of the sample
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19) The ten (10) Substance of Very High Concern (SVHC) content

No.	Substance Name	CAS No.	Unit	MQL	Result	Classification
					No.1 ^Δ	
182	Terphenyl, hydrogenated	61788-32-7	%	0.05	N.D.	vPvB
183	Octamethylcyclotetrasiloxane(D4)	556-67-2	%	0.05	N.D.	PBT; vPvB
184	Lead	7439-92-1	%	0.05	N.D.	Toxic for reproduction
185	Ethylenediamine (EDA)	107-15-3	%	0.05	N.D.	Respiratory sensitising properties
186	Dodecamethylcyclohexasiloxane (D6)	540-97-6	%	0.05	N.D.	PBT; vPvB
187	Disodium octaborate*	12008-41-2	%	0.05	N.D.	Toxic for reproduction

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188	Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.05	N.D.	Toxic for reproduction; Endocrine disrupting properties
189	Decamethylcyclopentasiloxane (D5)	541-02-6	%	0.05	N.D.	PBT; vPvB
190	Benzo[ghi]perylene	191-24-2	%	0.05	N.D.	PBT; vPvB
191	Benzene-1,2,4- tricarboxylic acid 1,2 anhydride (TMA)	552-30-7	%	0.05	N.D.	Respiratory sensitising properties

Note : 1. N.D. = not detected (less than MQL)
N.A.=Not applicable
2. 1mg/kg=1ppm=0.0001%
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Test Part Description :

No.1 : 3 in 1 Charging Cable (S1120, S1122, S1072, SK1012)

Written by: *Amanda* Inspected by: *Annie* Approved by: *Ben*

*** End of Report ***



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3 Sample Reference Photo



S1072



S1120

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S1122



SK1012

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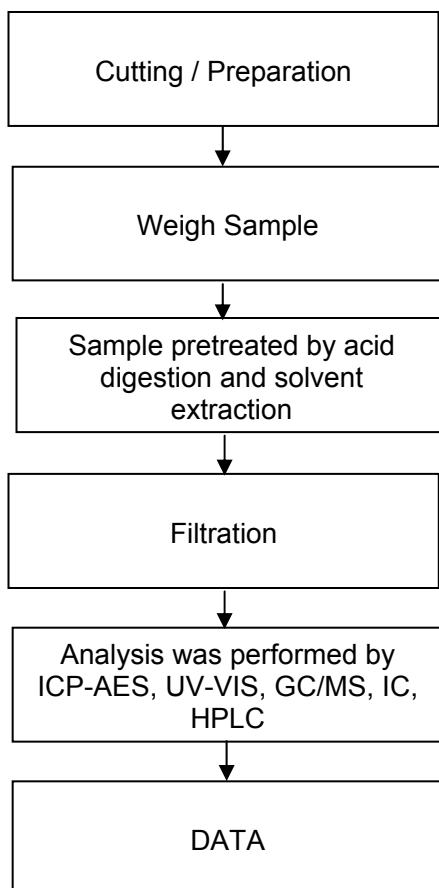


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4 Attachment

Analytical flow chart of SVHC



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