SIGMA
TEST & RESEARCH CENTRE

ANALYSIS REPORT Date : 21/06/2017

Report No. : STRC/4001697

1. **173 SVHC is performed by means of currently available analytical techniques against the list published by ECHA on 2017 Jan 12.**

1. The chemical analysis of 173 Substances of Very High Concern SVHC is performed by means of currently available analytical techniques against the list published by ECHA on 2017 Jan 12.

2. In accordance with Regulation (EC) No 1907/2006, any 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 is present in those articles in quantities totalling over one tonne per producer or importer per year; and
   (b) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w).

3. 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.

4. 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.

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SIGMA TEST & RESEARCH CENTRE BA-15, Mangolpuri Industrial Area, Phase-2 DELHI

Authorised Signatory

LAB I: BA-15, Mangolpuri Industrial Area, Phase -2 , New Delhi -34
LAB II: A-131, Mangolpuri Industrial Area, Phase -2 , New Delhi -34
R. Off.: No. 16, 18th Main Road, Padmanabhanagar, Nr. Deccan International School, Bangalore-61 Ph : +91-80-42287228

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REACH Test Report

Client	:	Tara Paints & Chemicals A/423/14, Mahagujarat Ind. Estate, Sarkhej-Bavla Road, Village-Moraiya, Ahmedabad-382210. Gujarat (India)
Sample Description	:	Lacquer Clear Paint (Batch No. 1003)
Sample Received	:	21/06/2017
Testing Period	:	21/06/2017 to 26/06/2017
Test Requested	:	173 Substances of Very High Concern (SVHC) screening. SVHC candidate list based on the publication by European Chemicals Agency (ECHA) on 2017 Jan 12, regarding Regulation (EC) No 1907/2006 concerning the REACH.
Test Methods	:	Please refer to next pages
Summary	:	According to the interpretation of ECHA and the majority of EU member states on the definition of an article as well as the specified scope and analytical technique, concentrations of all SVHC are <0.1% in the submitted sample(s).
Test Location	:	Sigma Test & Research Centre BA-15, Mangolpuri IndustrialArea, New Delhi -110034.

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SIGMA TEST & RESEARCH CENTRE BA-15 Mangolpuri Industrial Area, Phase-II DELHI

Authorised Signatory

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1	4,4' -Diaminodiphenylmethane(MDA)	N.D.	101-77-9	0.050
2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	N.D.	81-15-2	0.050
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	N.D.	85535-84-8	0.050
4	Anthracene	N.D.	120-12-7	0.050
5	Benzyl butyl phthalate (BBP)	N.D.	85-68-7	0.050
6	Bis (2-ethylhexyl)phthalate (DEHP)	0.00088	117-81-7	0.050
7	Bis(tributyltin)oxide (TBTO)	N.D.	56-35-9	0.050
8	Cobalt dichloride*	N.D.	7646-79-9	0.005
9	Diarsenic pentaoxide*	N.D.	1303-28-2	0.005
10	Diarsenic trioxide*	N.D.	1327-53-3	0.005
11	Dibutyl phthalate (DBP)	0.00103	84-74-2	0.050
12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	N.D.	25637-99-4, 3194- 55-6	0.050
13	Lead hydrogen arsenate*	N.D.	7784-40-9	0.005
14	Sodium dichromate*	N.D.	7789-12-0, 10588-01-9	0.005
15	Triethyl arsenate*	N.D.	15606-95-8	0.005
16	2,4-Dinitrotoluene	N.D.	121-14-2	0.050
17	Acrylamide	N.D.	79-06-1	0.050
18	Anthracene oil*	N.D.	90640-80-5	0.050
19	Anthracene oil, anthracene paste*	N.D.	90640-81-6	0.050
20	Anthracene oil, anthracene paste, anthracene fraction*	N.D.	91995-15-2	0.050

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21	Anthracene oil, anthracene paste, distn. lights*	ND	91995-17-4	0.050
22	Anthracene oil, anthracene-low*	ND	90640-82-7	0.050
23	Diisobutyl phthalate	0.01185	84-69-5	0.050
24	Lead chromate*	ND	7758-97-6	0.005
25	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	ND	12656-85-8	0.005
26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	ND	1344-37-2	0.005
27	Pitch, coal tar, high temp.*	ND	65996-93-2	0.050
28	Tris(2-chloroethyl)phosphate	ND	115-96-8	0.050
29	Ammonium dichromate*	ND	7789-09-5	0.005
30	Boric acid*	ND	10043-35-3, 11113-50-1	0.005
31	Disodium tetraborate, anhydrous*	ND	1303-96-4, 1330-43-4, 12179-04-3	0.005
32	Potassium chromate*	ND	7789-00-6	0.005
33	Potassium dichromate*	ND	7778-50-9	0.005
34	Sodium chromate*	ND	7775-11-3	0.005
35	Tetraboron disodium heptaoxide, hydrate*	ND	12267-73-1	0.005
36	Trichloroethylene	ND	79-01-6	0.050
37	2-Ethoxyethanol	ND	110-80-5	0.050
38	2-Methoxyethanol	ND	109-86-4	0.050
39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	ND	7738-94-5 - 13530-68-2	0.005

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40	Chromium trioxide*	ND	1333-82-0	0.005
41	Cobalt(II) carbonate*	ND	513-79-1	0.005
42	Cobalt(II) diacetate*	ND	71-48-7	0.005
43	Cobalt(II) dinitrate*	ND	10141-05-6	0.005
44	Cobalt(II) sulphate*	ND	10124-43-3	0.005
45	1,2,3-trichloropropane	ND	96-18-4	0.050
46	1,2-Benzenedicarboxylic acid,di-C6-8-branched alkyl esters, C7-rich	ND	71888-89-6	0.050
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	ND	68515-42-4	0.050
48	1-methyl-2-pyrrolidone	ND	872-50-4	0.050
49	2-ethoxyethyl acetate	ND	111-15-9	0.050
50	Hydrazine	ND	7803-57-8, 302-01-2	0.050
51	Strontium chromate*	ND	7789-06-2	0.005
52	1,2-Dichloroethane	ND	107-06-2	0.050
53	2,2'-dichloro-4,4'-methylenedianiline	ND	101-14-4	0.050
54	2-Methoxyaniline; o-Anisidine	ND	90-04-0	0.050
55	4-(1,1,3,3-tetramethylbutyl)phenol	ND	140-66-9	0.050
56	Aluminosilicate Refractory Ceramic Fibres *	ND	650-017-00-8 (Indexno.)	0.005
57	Arsenic acid*	ND	7778-39-4	0.005
58	Bis(2-methoxyethyl) ether	ND	111-96-6	0.050
59	Bis(2-methoxyethyl) phthalate	ND	117-82-8	0.050

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60	Calcium arsenate*	ND	7778-44-1	0.005
61	Dichromium tris(chromate) *	ND	24613-89-6	0.005
62	Formaldehyde, oligomeric reaction products with aniline	ND	25214-70-4	0.050
63	Lead diazide, Lead azide*	ND	13424-46-9	0.005
64	Lead dipicrate*	ND	6477-64-1	0.005
65	Lead styphnate*	ND	15245-44-0	0.005
66	N,N-dimethylacetamide	ND	127-19-5	0.050
67	Pentazinc chromate octahydroxide*	ND	49663-84-5	0.005
68	Phenolphthalein	ND	77-09-8	0.050
69	Potassium hydroxyoctaoxodizincatedichromate*	ND	11103-86-9	0.005
70	Trilead diarsenate*	ND	3687-31-8	0.005
71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	ND	650-017-00-8 (Indexno.)	0.005
72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylide ne] dimethylammonium chloride (C.I. Basic Blue 26)	ND	2580-56-5	0.050
73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylamm onium chloride (C.I. Basic Violet 3)	ND	548-62-9	0.050
74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	ND	112-49-2	0.050
75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	ND	110-71-4	0.050
76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	ND	90-94-8	0.050
77	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol	ND	561-41-1	0.050
78	Diboron trioxide*	ND	1303-86-2	0.005

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79	Formamide	ND	75-12-7	0.050
80	Lead(II) bis(methanesulfonate)*	ND	17570-76-2	0.005
81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	ND	101-61-1	0.050
82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trio ne)	ND	2451-62-9	0.050
83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	ND	6786-83-0	0.050
84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	ND	59653-74-6	0.050
85	[Phthalato(2-)]dioxotrilead*	ND	69011-06-9	0.005
86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	ND	84777-06-0	0.050
87	1,2-Diethoxyethane	ND	629-14-1	0.050
88	1-Bromopropane	ND	106-94-5	0.050
89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	ND	143860-04-2	0.050
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	ND	-	0.050
91	4,4'-Methylenedi-o-toluidine	ND	838-88-0	0.050
92	4,4'-Oxydianiline and its salts	ND	101-80-4	0.050
93	4-Aminoazobenzene	ND	60-09-3	0.050
94	4-Methyl-m-phenylenediamine	ND	95-80-7	0.050
95	4-Nonylphenol, branched and linear	ND	-	0.050
96	6-Methoxy-m-toluidine	ND	120-71-8	0.050
97	Acetic acid, lead salt, basic*	ND	51404-69-4	0.005

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98	Biphenyl-4-ylamine	ND	92-67-1	0.050
99	Bis(pentabromophenyl) ether (DecaBDE)	ND	1163-19-5	0.050
100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	ND	85-42-7, 13149-00-3, 14166-21-3	0.050
101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)	ND	123-77-3	0.050
102	Dibutyltin dichloride (DBTC)	ND	683-18-1	0.050
103	Diethyl sulphate	ND	64-67-5	0.050
104	Diisopentylphthalate	ND	605-50-5	0.050
105	Dimethyl sulphate	ND	77-78-1	0.050
106	Dinoseb	ND	88-85-7	0.050
107	Dioxobis(stearato)trilead*	ND	12578-12-0	0.005
108	Fatty acids, C16-18, lead salts*	ND	91031-62-8	0.005
109	Furan	ND	110-00-9	0.050
110	Henicosafluoroundecanoic acid	ND	2058-94-8	0.050
111	Heptacosafluorotetradecanoic acid	ND	376-06-7	0.050
112	Hexahydromethylphathalic anhydride, Hexahydro-4-methy lphathalic anhydride, Hexahydro-1-methy lphathalic anhydride, Hexahydro-3-methy lphathalic anhydride	ND	-	0.050
113	Lead bis(tetrafluoroborate)*	ND	13814-96-5	0.005
114	Lead cyanamidate*	ND	20837-86-9	0.005
115	Lead dinitrate*	ND	10099-74-8	0.005
116	Lead monoxide*	ND	1317-36-8	0.005

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117	Lead oxide sulfate*	ND	12036-76-9	0.005
118	Lead tetroxide (orange lead)*	ND	1314-41-6	0.005
119	Lead titanium trioxide*	ND	12060-00-3	0.005
120	Lead titanium zirconium oxide*	ND	12626-81-2	0.005
121	Methoxyacetic acid	ND	625-45-6	0.050
122	Methyloxirane (Propylene oxide)	ND	75-56-9	0.050
123	N,N-dimethylformamide	ND	68-12-2	0.050
124	N-Methylacetamide	ND	79-16-3	0.050
125	N-Pentyl-isopentylphthalate	ND	776297-69-9	0.050
126	o-Aminoazotoluene	ND	97-56-3	0.050
127	o-Toluidine	ND	95-53-4	0.050
128	Pentacosafluorotridecanoic acid	ND	72629-94-8	0.050
129	Pentalead tetraoxide sulphate*	ND	12065-90-6	0.005
130	Pyrochlore, antimony lead yellow*	ND	8012-00-8	0.005
131	Silicic acid, barium salt, lead-doped*	ND	68784-75-8	0.005
132	Silicic acid, lead salt*	ND	11120-22-2	0.005
133	Sulfurous acid, lead salt, dibasic*	ND	62229-08-7	0.005
134	Tetraethyllead*	ND	78-00-2	0.005
135	Tetralead trioxide sulphate*	ND	12202-17-4	0.005
136	Tricosafluorododecanoic acid	ND	307-55-1	0.050
137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	ND	1319-46-6	0.005

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138	Trilead dioxide phosphonate*	ND	12141-20-7	0.005
139	4-Nonylphenol, branched and linear, ethoxylated	ND	-	0.050
140	Ammonium pentadecafluorooctanoate (APFO)	ND	3825-26-1	0.050
141	Cadmium oxide*	ND	1306-19-0	0.005
142	Cadmium*	ND	7440-43-9	0.005
143	Dipentyl phthalate (DPP)	ND	131-18-0	0.050
144	Pentadecafluorooctanoic acid (PFOA)	ND	335-67-1	0.050
145	Cadmium sulphide*	ND	1306-23-6	0.005
146	Dihexyl phthalate	ND	84-75-3	0.050
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	ND	573-58-0	0.050
148	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)	ND	1937-37-7	0.050
149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	ND	96-45-7	0.050
150	Lead di(acetate)*	ND	301-04-2	0.005
151	Trixylyl phosphate	ND	25155-23-1	0.050
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	ND	68515-50-4	0.050
153	Cadmium chloride*	ND	10108-64-2	0.005
154	Sodium perborate; perboric acid, sodium salt*	ND	-	0.005
155	Sodium peroxometaborate*	ND	7632-04-4	0.005

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156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	ND	25973-55-1	0.050
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	ND	3846-71-7	0.050
158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate; DOTE	ND	15571-58-1	0.050
159	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-di thia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	ND	-	0.050
160	Cadmium fluoride*	ND	7790-79-6	0.005
161	Cadmium sulphate*	ND	10124-36-4, 31119-53-6	0.005
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	ND	68515-51-5, 68648-93-1	0.050
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]	ND	-	0.050
164	1,3-propanesultone	ND	1120-71-4	0.050
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	ND	3864-99-1	0.050
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	ND	36437-37-3	0.050
167	Nitrobenzene	ND	98-95-3	0.050
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	ND	375-95-1, 21049-39-8, 4149-60-4	0.050
169	Benzo[def] chrysene	ND	50-32-8	0.050
170	44-Iso Propylidenediphenol (Bis Phenol A)	ND	80-05-7	0.00001

LAB I: BA-15, Mangolpuri Industrial Area, Phase -2, New Delhi -34
LAB II: A-131, Mangolpuri Industrial Area, Phase -2, New Delhi -34
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S.No.	Substance Name	Concentration	CAS No.	RL (%)
171	4-heptylphenol, branched and linear	ND	1987-50-4	0.00001
172	P-(1,1-Dimethylpropyl) phenol	ND	80-46-6	0.00001
173	Nonadeca Fluorodecacanoic acid (PFDA) and its sodium and ammonium salt			
	Nonadeca Fluorodecanoic acid	ND	335-76-2	0.00001
	Decanoic acid,Nonadeca Fluoro,sodium salt	ND	3830-45-3	0.00001
	Ammonium Nonadeca Fluorodecanoate	ND	3108-42-7	0.00001

Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. N.D.= not detected = below Reporting Limit
3. RL = Reporting Limit
4. conc. of Sodium dichromate dihydrate = conc. of sodium dichromate × 1.1374
5. (* 1): Oligomers of chromic acid and dichromic acid : since the oligomers are made of the unknown amount of chromic acid or dichromic acid that results in no fixed molecular weight, therefore the monomer of chromic acid or dichromic acid is relevant and considered.
6. (* 2): Tetraboron disodium heptaoxide, hydrate: Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation.
7. (**):The concentrations of above-mentioned mixtures are evaluated per the gained composition rate between the selected marks and the mixtures.
8. ***: The substance was calculated by the test results of element (Ex. Arsenic, Lead, Cr(VI), Boron, Cobalt, Barium respectively).

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Authorised Signatory

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The test result is given as

Substance Name	Concentration (%)	RL (%)
Arsenic (As)	ND	0.000025
Lead (Pb)	ND	0.000025
Hexavalent Chromium Cr(VI)	ND	0.0001
Boron (B)	ND	0.0001
Cobalt (Co)	ND	0.000025

Regarding the compound containing arsenic and lead, lead and arsenic are tested and respectively used for the calculation of the independent concentration of the compound containing arsenic and lead. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.

***

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Authorised Signatory

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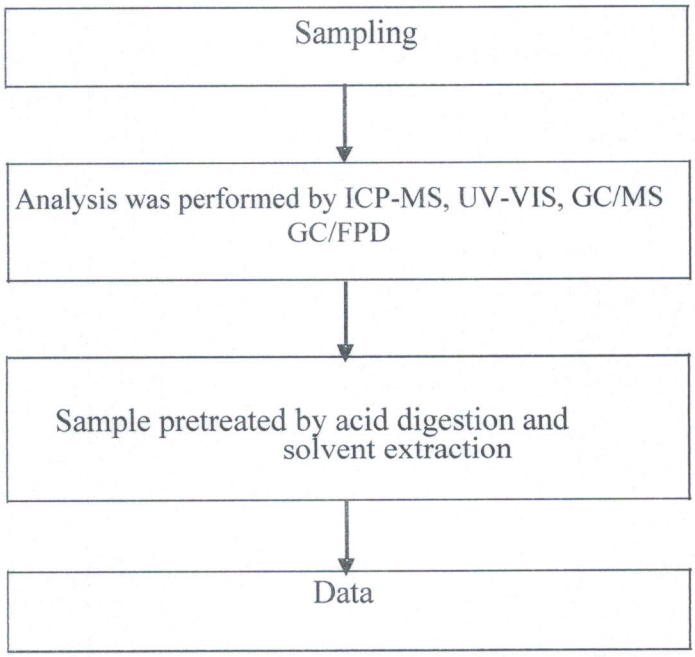
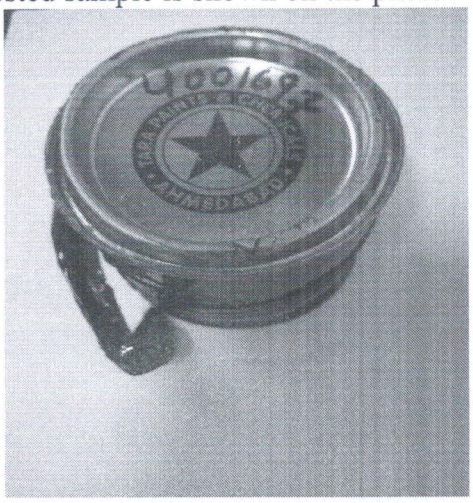
APPENDIX 1: Flowchart of Testing and sample photo



The tested sample is shown on the photo



NOTE- Sigma Test & Research Centre authenticate the photo on original report only.

--- End of Report ---

***

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