Prüfbericht - Nr.: *Test Report No.:*	**IND/BLR/CH/2015/4532 Part-A**	**Seite 1 von 17** *Page 1 of 17*

Auftraggeber: *Client:*	**DIVINE ATMOS PRIVATE LIMITED** 5A-1, 4th Street, Chintamani Nagar, K.K pudur, Coimbatore – 641038 Tamilnadu, India
Gegenstand der Prüfung: *Test item:*	Green Atmos Plates(Composite Analysis)

Bezeichnung: *Identification:*	-	**Serien-Nr.:** *Serial No./* Document Submitted*:*	Email Dated 29.07.2015
Wareneingangs-Nr.: *Receipt No.:*	03082015	**Eingangsdatum:** *Date of receipt:*	03.08.2015
Order No.:	1803090947	*Test Period:*	04.08.2015 to 11.08.2015

Prüfort: *Testing location:*	TÜV Rheinland India Pvt Ltd, Plot No.17B, Electronic City, Phase 2, Hosur Road, Bangalore - 560 100, Karnataka, India.
Prüfgrundlage: *Test Paramters / Requirement:*	Customer requirement : 163 Substances of Very High Concern (SVHC) as per Authorization List and Candidate List – 01, 02, 03, 04, 05, 06, 07, 08, 09,10,11, 12 and 13 Authorization list Proposed by European Chemical Agency (ECHA) With reference to Corrigendum to Regulation (EC) no.1907/2006, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals(REACH).
Prüfergebnis: *Test Result:*	Please refer pages 2 to 17.

Prüflaboratorium/ Testing Laboratory:

zusammengestellt/ *compiled by*:

Datum *Date*	**Name** *Name*	**Unterschrift** *Signature*
12.08.2015	Sekar .M Asst. Manager - Material Testing Laboratories, Industry Services	

kontrolliert/ *checked by:*

Datum *Date*	**Name** *Name*	**Unterschrift** *Signature*
12.08.2015	Chandrashekara Aithala B Manager, Material Testing Laboratories, Industry Services	

Sonstiges/ Other Aspects: This report contains Part B,C & D also as additional tests.

Abkürzungen:	***ok / P***	***=***	***entspricht Prüfgrundlage***	***Abbreviations:***	***ok / P***	***=***	***passed***
	fail / F	***=***	***entspricht nicht Prüfgrundlage***		***fail / F***	***=***	***failed***
	n.a. / N	***=***	***nicht anwendbar***		***n.a. / N***	***=***	***not applicable***

REACH SVHC Compliance: As per Regulation EC No.: 1907/2006 proposed by European Chemical Agency (ECHA)

Test Requested: 163 Substances of Very High Concern (SVHC) as per Authorization List and Candidate List - 01, 02, 03, 04, 05,06, 07, 08, 09, 10,11, 12 and 13 Authorization list Proposed by European Chemical Agency (ECHA) With reference to Corrigendum to Regulation (EC) no.1907/2006, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals(REACH).

Test Method: The Part was analyzed for 163 Substance of Very High Concern (SVHC) as per the Authorization list and Candidate list-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12 and 13 subject to Authorization proposed by European Chemical Agency (ECHA) as per REACH Regulation EC No.1907/2006 requirement by using suitable analytical techniques namely GC-MS, GC-FID&ECD, ICP-OES and LC-MSMS.

Test Conclusion: The test item has been tested and found to comply with the REACH regulation obligation as per the above para. The concentration of SVHC is well within the limit (0.1% wt/wt).

TEST RESULTS

Evaluation of 163 Substances of Very High Concern (SVHC's) as per Authorization List and Candidate List - 01, 02, 03, 04, 05, 06, 07, 08, 09, 10,11, 12 and 13 as per REACH Regulation EC.No.1907/2006

Contents:

1. Executive Summary:

The Part was analyzed for 163 Substance of Very High Concern (SVHC) as per the Authorization list and Candidate list-01, 02, 03, 04, 05, 06, 07, 08, 09, 10,11 12 and 13 subject to Authorization proposed by European Chemical Agency (ECHA) as per REACH Regulation EC No.1907/2006 requirement by using suitable analytical techniques. The test results for the Part is well within the permissible limit 0.1% wt/wt.

2. Background:

TÜV Rheinland India Pvt. Ltd was requested to analyze the part for 163 Substance of Very High Concern as per the Authorization list and Candidate List - 01, 02, 03, 04, 05, 06, 07, 08, 09, 10,11, 12 and 13 subject to Authorization proposed by European Chemical Agency (ECHA).

REACH (Registration, Evaluation, Authorisation and Restrictions of Chemicals) is the regulation for controlling chemicals in Europe. Any company exporting a chemical substance on its own, in a preparation (mixture of substances), or in articles (finished manufactured goods & packaging material) at or above 1 tonne per year should be subjected to REACH compliance and company has to register chemical substances with the European Chemical Agency (ECHA)

From 28 October 2008, EU & EEA suppliers of articles which contain substances on the Candidate List in a concentration above 0.1% (w/w) must provide sufficient information, available to them, to their customers and on request to consumers within 45 days of the receipt of this request. This information must ensure safe use of the article and, as a minimum, include the name of the substance.

From 1 December 2011, EU and EEA producers or importers of articles have to notify ECHA when their article contains a substance on the Candidate List. This obligation applies if the substance is present above 0.1% (w/w) and its quantities in the produced/imported articles are above 1 tonne in total per year per company.

3. Evaluation of SVHCs (Substance of Very High Concern)

The Authorisation list and the Candidate List - 01, 02, 03, 04, 05, 06, 07, 08, 09, 10,11, 12 and 13 consisting of 163 SVHC's subject to Authorization proposed by European Chemical Agency (ECHA) are given below:

List of 163 SVHC's and category:

Sl.No.	Substance name	CAS No.	Category
1	4-4'-Diaminodiphenylmethane	101-77-9	Carcinogen, cat. 2
2	Benzylbutylphthalate (BBP)	85-68-7	Toxic for reproduction cat.2
3	Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	Toxic for reproduction cat.2
4	Dibutylphthalate (DBP)	84-74-2	Toxic for reproduction cat.2
5	HBCDD/ 1,3,5,7,9,11- HBCDD	25637-99-4/3194-55-6	PBT
6	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	vPvB
7	(Short Chain Chlorinated Paraffins) C10-13, (SCCP)	85535-84-8	PBT, vPvB
8	Anthracene	120-12-7	PBT
9	Bis(tributyltin)oxide, hexabutyldistannoxane(TBTO)	56-35-9	PBT
10	Triethyl arsenate	15606-95-8	Carcinogen, Cat 1
11	Diarsenic Pentoxide	1303-28-2	Carcinogen, Cat 1
12	Diarsenic trioxide	1327-53-3	Carcinogen, Cat 1
13	Lead hydrogen arsenate	7784-40-9	Carcinogen, Cat 1, Toxic to reproduction, Cat 1
14	Cobalt (2+) dichloride	7646-79-9	PBT, vPvB
15	Sodium dichrome, dihydrate(2)	7789-12-0	Carcinogen, cat 2; Mutagen, cat 2, Toxic for reproduction
16	2,4-Dinitrotoluene	121-14-2	Carcinogen, category 2

Sl.No.	Substance name	CAS No.	Category
17	Diisobutyl phthalate	84-69-5	Toxic for reproduction category 2
18	Tris(2-chloroethyl) phosphate	115-96-8	Toxic for reproduction category 2
19	Lead chromate	7758-97-6	Carcinogen, category 2 ; Toxic for reproduction category 1
20	Lead chromate molybdate sulfate red (C.I Pigment Red 104)	12656-85-8	Carcinogen, category 2 ; Toxic for reproduction category 1
21	Lead sulfochromate yellow (C.I Pigment Yellow 34)	1344-37-2	Carcinogen, category 2 ; Toxic for reproduction category 1
22	Anthracene Oil	90640-80-5	Persistent, bioaccumulative and toxic; Very persistent and very ioaccumulative; Carcinogen, category 2
23	Anthracene Oil, anthracene paste, distn. Lights(4)	91995-17-4	Persistent, bioaccumulative and toxic; Very persistent and very ioaccumulative; Carcinogen, category 2Mutagen, category 2
24	Anthracene Oil, anthracene paste, antracene fraction	91995-15-2	Persistent, bioaccumulative and toxic; Very persistent and very bioaccumulative; Carcinogen, category 2 Mutagen, category 2
25	Anthracene Oil, anthracene –Low	90640-82-7	Persistent, bioaccumulative and toxic; Very persistent and very bioaccumulative; Carcinogen, category 2 Mutagen, category 2
26	Anthracene oil, anthracene paste	90640-81-6	Persistent, bioaccumulative and toxic; Very persistent and very bioaccumulative; Carcinogen, category 2 Mutagen, category 2
27	Coal tar pitch, high temperature	65996-93-2	Persistent, bioaccumulative and toxic; Very persistent and very bioaccumulative ; Carcinogen, category 2
28	Aluminosilicate, Refractory Ceramic Fibers (RCF)	Index no: 650-017-00-8	Carcinogen, category 2
29	Zirconia Aluminosilicate, Refractory CeramicFibers(RCF)		Carcinogen, category 2
30	Trichloroethylene	79-01-6	Carcinogenic, Mutagenic and Toxic to reproduction
31	Boric Acid	10043-35-3	Carcinogenic, Mutagenic and Toxic to reproduction
32	Disodium Tetraborate, anhydrous	1330-43-4	Carcinogenic, Mutagenic and Toxic to reproduction
33	Tetraboran Disodium heptaoxide hydrate	12267-73-1	Carcinogenic, Mutagenic and Toxic to reproduction
34	Sodium Chromate	7775-11-3	Carcinogenic, Mutagenic and Toxic to reproduction
35	Potassium Chromate	7789-00-6	Carcinogenic, Mutagenic and Toxic to reproduction

Sl.No.	Substance name	CAS No.	Category
36	Ammonium Dichromate	7789-09-5	Carcinogenic, Mutagenic and Toxic to reproduction
37	Potassium Dichromate	7778-50-9	Carcinogenic, Mutagenic and Toxic to reproduction
38	Acryl Amide	79-06-1	Toxic (T) ,Carc. Cat. 2, Muta.Cat. 2Repr. Cat. 3
39	Cobalt(II) sulphate	10124-43-3	Carcinogenic, Mutagenic and Toxic to reproduction
40	Cobalt(II) dinitrate	10141-05-6	Carcinogenic, Mutagenic and Toxic to reproduction
41	Cobalt(II) carbonate	513-79-1	Carcinogenic, Mutagenic and Toxic to reproduction
42	Cobalt(II) diacetate	71-48-7	Carcinogenic, Mutagenic and Toxic to reproduction
43	2-Methoxyethanol	109-86-4	Carcinogenic, Mutagenic and Toxic to reproduction
44	2-Ethoxyethanol	110-80-5	Carcinogenic, Mutagenic and Toxic to reproduction
45	Chromium trioxide	1333-82-0	Carcinogenic, Mutagenic and Toxic to reproduction
46	Acids generated from chromium trioxide and their oligomers	7738-94-5, 13530-68-2	Carcinogenic, Mutagenic and Toxic to reproduction
47	2-ethoxyethyl acetate	111-15-9	Art. 57 (c), toxic for reproduction
48	Strontium chromate	6/2/7789	Art. 57 (a), carcinogenic
49	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	Art. 57 (c), toxic for reproduction
50	Hydrazine	302-01-2 7803-57-8	Art. 57 (a), carcinogenic
51	1-methyl-2-pyrrolidone	872-50-4	Art. 57 (c), toxic for reproduction
52	1,2,3-trichloropropane	96-18-4	Art. 57 (a) & (c), carcinogenic & toxic for reproduction
53	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	Art. 57 (c), toxic for reproduction
54	Lead styphnate	15245-44-0	Art. 57 (c), toxic for reproduction
55	Lead diazide, Lead azide	13424-46-9	Art. 57 (c), toxic for reproduction
56	Lead dipicrate	6477-64-1	Art. 57 (c), toxic for reproduction
57	Phenolphthalein	77-09-8	Art. 57 (a), carcinogenic
58	2,2'-Dichloro-4,4'-methylenedianiline	101-14-4	Art. 57 (a), carcinogenic
59	N,N-dimethylacetamide	127-19-5	Art. 57 (c), toxic for reproduction
60	Trilead diarsenate	3687-31-8	Art. 57 (a) & (c), carcinogenic & toxic for reproduction
61	Calcium arsenate	7778-44-1	Art. 57 (a), carcinogenic
62	Arsenic acid	7778-39-4	Art. 57 (a), carcinogenic
63	Bis(2-methoxyethyl) ether	111-96-6	Art. 57 (c), toxic for reproduction

Sl.No.	Substance name	CAS No.	Category
64	1,2-Dichloroethane	107-06-2	Art. 57 (a), carcinogenic
65	4-(1,1,3,3-Tetramethylbutyl)phenol; 4-tert-octyl phenol	140-66-9	Art. 57 (f), equivalent level of concern having probable serious effects to the environment
66	2-Methoxyaniline; o-Anisidine	90-04-0	Art. 57 (a), carcinogenic
67	Bis(2-methoxyethyl) phthalate	117-82-8	Art. 57 (c), toxic for reproduction
68	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	Art. 57 (a), carcinogenic
69	Pentazinc chromate octahydroxide	49663-84-5	Art. 57 (a), carcinogenic
70	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	Art. 57 (a), carcinogenic
71	Dichromium tris(chromate)	24613-89-6	Art. 57 (a), carcinogenic
72	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride	548-62-9	Art. 57 (a), carcinogenic
73	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	Art. 57 (a), carcinogenic
74	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	Art. 57 (a), carcinogenic
75	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	Mutagenic (Article 57b)
76	Diboron trioxide	1303-86-2	Art. 57 (c), toxic for reproduction
77	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	Art. 57 (c), toxic for reproduction
78	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	Art. 57 (a), carcinogenic
79	Lead(II) bis(methanesulfonate)	17570-76-2	Art. 57 (c), toxic for reproduction
80	Formamide	75-12-7	Art. 57 (c), toxic for reproduction
81	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride	2580-56-5	Art. 57 (a), carcinogenic
82	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	Art. 57 (c), toxic for reproduction
83	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)Tris(epoxypropyl)isocyanurate	2451-62-9	Mutagenic (Article 57b)
84	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	Art. 57 (a), carcinogenic

Sl.No.	Substance name	CAS No.	Category
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	PBT (Article 57 d); vPvB (Article 57 e)
86	Pentacosafluorotridecanoic acid	72629-94-8	vPvB (Article 57 e)
87	Tricosafluorododecanoic acid	307-55-1	vPvB (Article 57 e)
88	Henicosafluoroundecanoic acid	2058-94-8	vPvB (Article 57 e)
89	Heptacosafluorotetradecanoic acid	376-06-7	vPvB (Article 57 e)
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -	140-66-9	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
91	4-Nonylphenol, branched and linear -	NA	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	Equivalent level of concern having probable serious effects to human health (Article 57 f)
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	Equivalent level of concern having probable serious effects to human health (Article 57 f)
94	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride,Hexahydro-3-methylphathalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	Equivalent level of concern having probable serious effects to human health (Article 57 f)
95	Methoxy acetic acid	625-45-6	Toxic for reproduction (Article 57 c)
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	Toxic for reproduction (Article 57 c)
97	Diisopentylphthalate (DIPP)	605-50-5	Toxic for reproduction (Article 57 c)
98	N-pentyl-isopentylphthalate	776297-69-9	Toxic for reproduction (Article 57 c)
99	1,2-Diethoxyethane	629-14-1	Toxic for reproduction (Article 57 c)
100	N,N-dimethylformamide	68-12-2	Toxic for reproduction (Article 57 c)
101	Dibutyltin dichloride (DBTC)	683-18-1	Toxic for reproduction (Article 57 c)
102	Acetic acid, lead salt, basic	51404-69-4	Toxic for reproduction (Article 57 c)
103	Trilead bis(carbonate)dihydroxide	1319-46-6	Toxic for reproduction (Article 57 c)
104	Lead oxide sulfate (basic lead sulfate)	12036-76-9	Toxic for reproduction (Article 57 c)
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)	69011-06-9	Toxic for reproduction (Article 57 c)
106	Dioxobis(stearato)trilead	12578-12-0	Toxic for reproduction (Article 57 c)
107	Fatty acids, C16-18, lead salts	91031-62-8	Toxic for reproduction (Article 57 c)

Sl.No.	Substance name	CAS No.	Category
108	Lead bis(tetrafluoroborate)	13814-96-5	Toxic for reproduction (Article 57 c)
109	Lead cynamidate	20837-86-9	Toxic for reproduction (Article 57 c)
110	Lead dinitrate	10099-74-8	Toxic for reproduction (Article 57 c)
111	Lead oxide (lead monoxide)	1317-36-8	Toxic for reproduction (Article 57 c)
112	Lead tetroxide (orange lead)	1314-41-6	Toxic for reproduction (Article 57 c)
113	Lead titanium trioxide	12060-00-3	Toxic for reproduction (Article 57 c)
114	Lead Titanium Zirconium Oxide	12626-81-2	Toxic for reproduction (Article 57 c)
115	Pentalead tetraoxide sulphate	12065-90-6	Toxic for reproduction (Article 57 c)
116	Pyrochlore, antimony lead yellow	8012-00-8	Toxic for reproduction (Article 57 c)
117	Silicic acid, barium salt, lead-doped	68784-75-8	Toxic for reproduction (Article 57 c)
118	Silicic acid, lead salt	11120-22-2	Toxic for reproduction (Article 57 c)
119	Sulfurous acid, lead salt, dibasic	62229-08-7	Toxic for reproduction (Article 57 c)
120	Tetraethyllead	78-00-2	Toxic for reproduction (Article 57 c)
121	Tetralead trioxide sulphate	12202-17-4	Toxic for reproduction (Article 57 c)
122	Trilead dioxide phosphonate	12141-20-7	Toxic for reproduction (Article 57 c)
123	Furan	110-00-9	Carcinogenic (Article 57a)
124	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	Carcinogenic (Article 57a); Mutagenic (Article 57b)
125	Diethyl sulphate	64-67-5	Carcinogenic (Article 57a); Mutagenic (Article 57b)
126	Dimethyl sulphate	77-78-1	Carcinogenic (Article 57a
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	Toxic for reproduction (Article 57 c)
128	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	Toxic for reproduction (Article 57 c)
129	4,4'-methylenedi-o-toluidine	838-88-0	Carcinogenic (Article 57a)
130	4,4'-oxydianiline and its salts	101-80-4	Carcinogenic (Article 57a); Mutagenic (Article 57b)
131	4-Aminoazobenzene	60-09-3	Carcinogenic (Article 57a)
132	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	Carcinogenic (Article 57a)
133	6-methoxy-m-toluidine (p-cresidine)	120-71-8	Carcinogenic (Article 57a)
134	Biphenyl-4-ylamine	92-67-1	Carcinogenic (Article 57a)
135	o-aminoazotoluene	97-56-3	Carcinogenic (Article 57a)
136	o-Toluidine	95-53-4	Carcinogenic (Article 57a)
137	N-methylacetamide	79-16-3	Toxic for reproduction (Article 57 c)

Sl.No.	Substance name	CAS No.	Category
138	1-bromopropane; n-propyl bromide	106-94-5	Toxic for reproduction (Article 57 c)
139	Cadmium	7440-43-9	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
140	Cadmium Oxide	1306-19-0	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
141	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
142	Pentadecafluorooctanoic Acid (PFOA)	335-67-1	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
143	Dipentyl Phthalate	131-18-0	Toxic for reproduction (Article 57 c)
144	4-Nonyl Phenol, Branched and Linear, Ethoxylated	-	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
145	Cadmium sulphide	1306-23-6	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	Carcinogenic (Article 57a)
147	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	Carcinogenic (Article 57a)
148	Dihexyl phthalate	84-75-3	Toxic for reproduction (Article 57 c)
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	Toxic for reproduction (Article 57 c)
150	Lead di(acetate)	301-04-2	Toxic for reproduction (Article 57 c)
151	Trixylyl phosphate	25155-23-1	Toxic for reproduction (Article 57 c)
152	1,2- Bezenedicarboxylix Acid,Dihexyl Ester Branched And Linear	68515-50-4	Toxic for reproduction (Article 57 c)
153	Sodium Perborate; Perboric Acid, Sodium Salt	-	Toxic for reproduction (Article 57 c)
154	Sodium Peroxometaborate	7632-04-4	Toxic for reproduction (Article 57 c)
155	Cadmium Chloride	10108-64-2	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57 f)

Sl.No.	Substance name	CAS No.	Category
156	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	PBT (Article 57 d); vPvB (Article 57 e)
157	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	Toxic for reproduction (Article 57 c)
158	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)	-	Toxic for reproduction (Article 57 c)
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	PBT (Article 57 d); vPvB (Article 57 e)
160	Cadmium fluoride	7790-79-6	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
161	Cadmium sulphate	10124-36-4, 31119-53-6	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
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	Toxic for reproduction (Article 57 c)
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]	-	VPvB (Article 57 c)

4. Description of the Samples

Sl. No.	Material Description	Identification
01	Green Atmos Plates(Composite analysis)	-

5. Test results

The test results for the Part tested does not show the presence of any one of the identified 163 SVHCs as per the Authorization list and the Candidate List subject to Authorization released by ECHA. The concentration of individual SVHC is well below the 0.1% wt/wt threshold limit.

5.1 Conclusion

The part tested complies with the REACH regulation obligation as per the above para. The concentration of SVHC is well within the limit (0.1% wt/wt).

NOTE:

This report is prepared based on the sample provided at the time of testing. Should there be any changes in the composition or the process of the product TÜV Rheinland will not be responsible for any damages / liabilities.

Detailed Test Results for 163 SVHC's:

Screening of 163 Substance of Very High Concern (SVHC) in Authorisation List and Candidate List-01, 02, 03, 04, 05, 06, 07, 08, 09, 10 , 11 ,12 &13 Subject to authorization.

Test Method:

1) ICP-Screening: Test portion is digested with acid and assisted with microwave, the elements are analysed by ICP-OES

2) GC-MS Screening: Test portion is extracted with organic solvent, the extracted solution are analysed by GC-MS.

3) LC-MS/MS Screening: Test portion is extracted with organic solvent, the extracted solution are analysed by LC-MS/MS.

4) GC-FID&ECD Screening: Test portion is extracted with organic solvent, the extracted solution are analysed by GC-FID&ECD.

Test Results for 163 SVHCs:

Sl. No.	Substance Name	CAS No.	Result (%)
1	4-4'-Diaminodiphenylmethane	10177-9	ND
2	Benzylbutylphthalate (BBP)	85-68-7	ND
3	Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	ND
4	Dibutylphthalate (DBP)	84-74-2	ND
5	HBCDD/ 1,3,5,7,9,11- HBCDD	25637-99-4 / 3194-55-6	ND
6	5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene)	81-15-2	ND
7	Short Chain Chlorinated Paraffins (C10-13,) (SCCP)	85535-84-8	ND
8	Anthracene	120-12-7	ND
9	Bis(tributyltin)oxide, hexabutyldistannoxane(TBTO)	56-35-9	ND
10	Triethyl arsenate	15606-95-8	ND
11	Diarsenic Pentoxide	1303-28-2	ND
12	Diarsenic trioxide	1327-53-3	ND
13	Lead hydrogen arsenate	7784-40-9	ND
14	Cobalt (2+) dichloride	7646-79-9	ND
15	Sodium dichrome, dehydrate	7789-12-0	ND
16	2,4-Dinitrotoluene	121-14-2	ND
17	Diisobutyl phthalate	84-69-5	ND
18	Tris(2-chloroethyl) phosphate	115-96-8	ND
19	Lead chromate	7758-97-6	ND

Sl. No.	Substance Name	CAS No.	Result (%)
20	Lead chromate molybdate sulfate red (C.I Pigment Red 104)	12656-85-8	ND
21	Lead sulfochromate yellow (C.I Pigment Yellow 34)	1344-37-2	ND
22	Anthracene Oil	90640-80-5	ND
23	Anthracene Oil, anthracene paste, distn. Lights	91995-17-4	ND
24	Anthracene Oil, anthracene paste, antracene fraction	91995-15-2	ND
25	Anthracene Oil, anthracene –Low	90640-82-7	ND
26	Anthracene oil, anthracene paste	90640-81-6	ND
27	Coal tar pitch, high temperature	65996-93-2	ND
28	Aluminosilicate, Refractory Ceramic Fibers(RCF)	Index No: 650-017-00-8	ND
29	Zirconia Aluminosilicate, Refractory Ceramic Fibers (RCF)		ND
30	Trichloroethylene	79-01-6	ND
31	Boric Acid	10043-35-3	ND
32	Disodium Tetraborate, anhydrous	1330-43-4	ND
33	Tetraboran Disodium heptaoxide hydrate	12267-73-1	ND
34	Sodium Chromate	7775-11-3	ND
35	Potassium Chromate	7789-00-6	ND
36	Ammonium Dichromate	7789-09-5	ND
37	Potassium Dichromate	7778-50-9	ND
38	Acryl Amide	79-06-1	ND
39	Cobalt(II) sulphate	10124-43-3	ND
40	Cobalt(II) dinitrate	10141-05-6	ND
41	Cobalt(II) carbonate	513-79-1	ND
42	Cobalt(II) diacetate	71-48-7	ND
43	2-Methoxyethanol	109-86-4	ND
44	2-Ethoxyethanol	110-80-5	ND
45	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	ND
46	Chromium trioxide	1333-82-0	ND
47	2-ethoxyethyl acetate	111-15-9	ND
48	Strontium chromate	6/2/7789	ND

Sl. No.	Substance Name	CAS No.	Result (%)
49	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	ND
50	Hydrazine	302-01-2 7803-57-8	ND
51	1-methyl-2-pyrrolidone	872-50-4	ND
52	1,2,3-trichloropropane	96-18-4	ND
53	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND
54	Lead styphnate	15245-44-0	ND
55	Lead diazide, Lead azide	13424-46-9	ND
56	Lead dipicrate	6477-64-1	ND
57	Phenolphthalein	77-09-8	ND
58	2,2’-Dichloro-4,4’-methylenedianiline	101-14-4	ND
59	N,N-dimethylacetamide	127-19-5	ND
60	Trilead diarsenate	3687-31-8	ND
61	Calcium arsenate	7778-44-1	ND
62	Arsenic acid	7778-39-4	ND
63	Bis(2-methoxyethyl) ether	111-96-6	ND
64	1,2-Dichloroethane	107-06-2	ND
65	4-(1,1,3,3-Tetramethylbutyl)phenol; 4-tert-octyl phenol	140-66-9	ND
66	2-Methoxyaniline; o-Anisidine	90-04-0	ND
67	Bis(2-methoxyethyl) phthalate	117-82-8	ND
68	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	ND
69	Pentazinc chromate octahydroxide	49663-84-5	ND
70	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	ND
71	Dichromium tris(chromate)	24613-89-6	ND
72	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride	548-62-9	ND
73	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	ND
74	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler’s base)	101-61-1	ND

Sl. No.	Substance Name	CAS No.	Result (%)
75	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	ND
76	Diboron trioxide	1303-86-2	ND
77	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	ND
78	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	ND
79	Lead(II) bis(methanesulfonate)	17570-76-2	ND
80	Formamide	75-12-7	ND
81	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride	2580-56-5	ND
82	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	ND
83	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)Tris(epoxypropyl)isocyanurate	2451-62-9	ND
84	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	ND
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	ND
86	Pentacosafluorotridecanoic acid	72629-94-8	ND
87	Tricosafluorododecanoic acid	307-55-1	ND
88	Henicosafluoroundecanoic acid	2058-94-8	ND
89	Heptacosafluorotetradecanoic acid	376-06-7	ND
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -	140-66-9	ND
91	4-Nonylphenol, branched and linear -	-	ND
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	ND
93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7	ND
94	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride,Hexahydro-3-methylphathalic anhydride	19438-60-9	ND
95	Methoxy acetic acid	625-45-6	ND
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	ND
97	Diisopentylphthalate (DIPP)	605-50-5	ND
98	N-pentyl-isopentylphthalate	131-18-0	ND

Sl. No.	Substance Name	CAS No.	Result (%)
99	1,2-Diethoxyethane	629-14-1	ND
100	N,N-dimethylformamide; dimethyl formamide	68-12-2	ND
101	Dibutyltin dichloride (DBT)	683-18-1	ND
102	Acetic acid, lead salt, basic	51404-69-4	ND
103	Basic lead carbonate (trilead bis(carbonate)dihydroxide)	1319-46-6	ND
104	Lead oxide sulfate (basic lead sulfate)	12036-76-9	ND
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)	69011-06-9	ND
106	Dioxobis(stearato)trilead	12578-12-0	ND
107	Fatty acids, C16-18, lead salts	91031-62-8	ND
108	Lead bis(tetrafluoroborate)	13814-96-5	ND
109	Lead cynamidate	20837-86-9	ND
110	Lead dinitrate	10099-74-8	ND
111	Lead oxide (lead monoxide)	1317-36-8	ND
112	Lead tetroxide (orange lead)	1314-41-6	ND
113	Lead titanium trioxide	12060-00-3	ND
114	Lead Titanium Zirconium Oxide	12626-81-2	ND
115	Pentalead tetraoxide sulphate	12065-90-6	ND
116	Pyrochlore, antimony lead yellow	8012-00-8	ND
117	Silicic acid, barium salt, lead-doped	68784-75-8	ND
118	Silicic acid, lead salt	11120-22-2	ND
119	Sulfurous acid, lead salt, dibasic	62229-08-7	ND
120	Tetraethyllead	78-00-2	ND
121	Tetralead trioxide sulphate	12202-17-4	ND
122	Trilead dioxide phosphonate	12141-20-7	ND
123	Furan	110-00-9	ND
124	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	ND
125	Diethyl sulphate	64-67-5	ND
126	Dimethyl sulphate	77-78-1	ND
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	ND
128	Dinoseb	88-85-7	ND
129	4,4'-methylenedi-o-toluidine	838-88-0	ND

Sl. No.	Substance Name	CAS No.	Result (%)
130	4,4'-oxydianiline and its salts	101-80-4	ND
131	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	ND
132	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	ND
133	6-methoxy-m-toluidine (p-cresidine)	120-71-8	ND
134	Biphenyl-4-ylamine	92-67-1	ND
135	o-aminoazotoluene	97-56-3	ND
136	o-Toluidine; 2-Aminotoluene	95-53-4	ND
137	N-methylacetamide	79-16-3	ND
138	1-bromopropane	106-94-5	ND
139	Cadmium	7440-43-9	ND
140	Cadmium Oxide	1306-19-0	ND
141	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	ND
142	Pentadecafluorooctanoic Acid (PFOA)	335-67-1	ND
143	Dipentyl Phthalate	131-18-0	ND
144	4-Nonyl Phenol, Branched and Linear, Ethoxylated	-	ND
145	Cadmium sulphide	1306-23-6	ND
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	ND
147	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	ND
148	Dihexyl phthalate	84-75-3	ND
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	ND
150	Lead di(acetate)	301-04-2	ND
151	Trixylyl phosphate	25155-23-1	ND
152	1,2- Bezenedicarboxylix Acid,Dihexyl Ester Branched And Linear	68515-50-4	ND
153	Sodium Perborate; Perboric Acid, Sodium Salt	-	ND
154	Sodium Peroxometaborate	7632-04-4	ND
155	Cadmium Chloride	10108-64-2	ND
156	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	ND
157	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	ND
158	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)	-	ND
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	ND
160	Cadmium fluoride	7790-79-6	ND

Sl. No.	Substance Name	CAS No.	Result (%)
161	Cadmium sulphate	10124-36-4, 31119-53-6	ND
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	ND
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]	-	ND

Note : ND denotes not detected, % denotes percentage
1. The substances are tested in term of its respective elements only (eg.As, Pb, cd). The actual concentration of its compound cannot be confirmed
2.The substances are tested in term of Cr(VI)
3. Single substances with an amount of <0.01% were not considered by the calculation of the sum.
4.In the case of all substances according to table were not detected, the result is stated not detected
5.Detection limit(DL) for the compound serial no. 22 to 27,49,93,94,123,151,157,158,162 and 163 is 0.01%

Remarks: The test item complies with the REACH regulation obligation as per the above para. The concentration of SVHC is well within the limit (0.1% wt/wt).

Test Item Photographs:

---- End of Report ----