

## TEST REPORT

(시험 성적서)

신청기관 (인) : LG 화학  
APPLICANT : LG Chem, Ltd.

주소 (한글) : 충청남도 서산시 대산읍 독곶 1 로 54  
ADDRESS (ENGL.) : 54, Dokgot 1-ro, Daesan-eup,  
Seosan-si, Chungcheongnam-do, Korea

발행면수 (PAGE) : 1 of 18  
발행일자 (DATE) : 2023. 01. 27.

시험성적서 번호 (REPORT NO.) : RT23R-S0389-003-K2

시료 명세 (SAMPLE DESCRIPTION) : 시료에 대한 상세한 정보는 아래와 같음  
(The following submitted sample(s) said to be)

제품명 / 형식 (NAME/TYPE OF PRODUCT) : PVC Resin (LS130S)  
(PVC Resin (LS130S))

재질 (NAME OF MATERIAL) : PVC Resin  
(PVC Resin)

시료고유번호 (SAMPLE ID NO.) : RT23R-S0389-003  
(RT23R-S0389-003)

제품 생산자 / 공급자 (MANUFACTURER/VENDOR) : LG 화학  
(LG Chem, Ltd.)

시료접수일자 (SAMPLE RECEIVED) : 2023. 01. 16.  
(Jan. 16, 2023)

시험일자 (TESTING DATE) : 2023. 01. 16. ~ 2023. 01. 27.  
(Jan. 16, 2023 ~ Jan. 27, 2023)

시험유형 (TEST TYPE) : 화학시험 - REACH 관련하여 ECHA 에서 공지한 233 종의 고 위험성 우려물질  
: Chemical Testing – Two hundred thirty-three (233) substances of very high concern (SVHC) based on the SVHC Candidate List announced by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 concerning REACH

시험결과요약 (SUMMARY OF TEST RESULT(S)) : ECHA 에서 공표한 고 위험성 우려물질 모두 0.1 % 이하로 검출됨  
: According to specified test processes in this report, contents of all substances of very high concern (SVHC) in Candidate List published by ECHA are less than 0.1 % (w/w) in submitted sample(s).  
For more details, please see the following page(s).

비고 (Notes) : 1. 이 시험성적서는 제시된 시료 및 시료명으로 시험한 결과로서 유사 대상시료에 적용할 수 없음.  
(The test results presented in this report refer only to the object tested.)  
2. 이 시험성적서는 승인없이 복사 사용을 금함.  
(This report shall not be reproduced except in full without the written approval of the testing laboratory.)

승인자 (Approved by)



장준용 / 기술책임자  
(Jade Jang / Lab. Technical Manager)

권한자 (Authorized by)



박병욱 / 소장  
(Bo Park / Lab. General Manager)



Authenticity  
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발행면수 (PAGE) : 2 of 18  
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시료고유번호 (SAMPLE ID NO.) : RT23R-S0389-003

시료명 (SAMPLE DESCRIPTION) : PVC Resin (LS130S)  
(PVC Resin (LS130S))

번호 (No.)	시험항목 (TESTITEM)	ECNo.	CASNo.	검출한계(RL) (%(w/w))	시험결과 (RESULT) (%(w/w))
1	Anthracene	204-371-1	120-12-7	0.02	N.D.
2	4,4'-diaminodiphenylmethane	202-974-4	101-77-9	0.02	N.D.
3	Dibutylphthalate(DBP)	201-557-4	84-74-2	0.02	N.D.
4	*2 Cobaltdichloride	231-589-4	7646-79-9	0.02	N.D.
5	*6 Diarsenicpentaoxide	215-116-9	1303-28-2	0.02	N.D.
6	*6 Diarsenictrioxide	215-481-4	1327-53-3	0.02	N.D.
7	*6 Sodiumdichromate	234-190-3	7789-12-0 10588-01-9	0.02	N.D.
8	5-tert-butyl-2,4,6-trinitro-m-xylene(muskxylene)	201-329-4	81-15-2	0.02	N.D.
9	Bis(2-thyl(hexyl)phthalate)(DEHP)	204-211-0	117-81-7	0.02	N.D.
10	Hexabromocyclododecane(HBCDD)	247-148-4 221-695-9	25637-99-4	0.02	N.D.
11	Shortchainchlorinatedparaffins(SCCPs)	287-476-5	85535-84-8	0.02	N.D.
12	Bis(tributyltin)oxide(TBTO)	200-268-0	56-35-9	0.02	N.D.
13	Leadhydrogenarsenate *4	232-064-2	7784-40-9	0.02	N.D.
14	*6 Triethylarsenate	427-700-2	15606-95-8	0.02	N.D.
15	Benzylbutylphthalate(BBP)	201-622-7	85-68-7	0.02	N.D.
16	*8 Anthraceneoil	292-602-7	90640-80-5	0.02	N.D.
17	*8 Anthraceneoil,anthracenepaste,distn,light	295-278-5	91995-17-4	0.02	N.D.
18	Anthraceneoil,anthracenepaste,anthracene *8 fraction	295-275-9	91995-15-2	0.02	N.D.
19	*8 Anthraceneoil,anthracene-low	292-604-8	90640-82-7	0.02	N.D.
20	*8 Anthraceneoil,anthracene-paste	292-603-2	90640-81-6	0.02	N.D.
21	*9 Coaltarpitch,hightemperature	266-028-2	65996-93-2	0.02	N.D.
22	Acrylamide	201-173-7	79-06-01	0.02	N.D.
23	2,4-Dinitrotoluene	204-450-0	121-14-2	0.02	N.D.

Intertek Testing Services Korea Ltd.

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24	Diisobutylphthalate	201-553-2	84-69-5	0.02	N.D.
25	*5 Leadchromate	231-846-0	7758-97-6	0.02	N.D.
26	Leadchromatemolybdatesulphatered *5 (C.I.pigmentred104)	235-759-9	12656-85-8	0.02	N.D.
27	Leadsulfochromateyellow *5 (C.I.pigmentyellow34)	215-693-7	1344-37-2	0.02	N.D.
28	Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	0.02	N.D.
29	Trichloroethylene	201-167-4	79-01-06	0.02	N.D.
30	*1 Boricacid	233-139-2 234-343-4	10043-35-3 11113-50-1	0.02	N.D.
31	*1 Disodiumtetraborate,anhydrous	215-540-4	1330-43-4 12179-04-3 1303-96-4	0.02	N.D.
32	*1 Tetraborondisodiumheptaoxide,hydrate	235-541-3	12267-73-1	0.02	N.D.
33	*6 Sodiumchromate	231-889-5	7775-11-03	0.02	N.D.
34	*6 Potassiumchromate	232-140-5	7789-00-6	0.02	N.D.
35	*6 Ammoniumdichromate	232-143-1	7789-09-5	0.02	N.D.
36	*6 Potassiumdichromate	231-906-6	7778-50-9	0.02	N.D.
37	*2 Cobalt(II)sulphate	233-334-2	10124-43-3	0.02	N.D.
38	*2 Cobalt(II)dinitrate	233-402-1	10141-05-6	0.02	N.D.
39	*2 Cobalt(II)carbonate	208-169-4	513-79-1	0.02	N.D.
40	*2 Cobalt(II)diacetate	200-755-8	71-48-7	0.02	N.D.
41	2-Methoxyethanol	203-713-7	109-86-4	0.02	N.D.
42	2-Ethoxyethanol	203-804-1	110-80-5	0.02	N.D.
43	*6 Chromiumtrioxide	215-607-8	1333-82-0	0.02	N.D.
44	Acidsgeneratedfrom Chromiumtrioxideand Chromicacid			0.02	N.D.
			231-801-5 236-881-5	7738-94-5 13530-68-2	0.02 N.D.

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45	2-ethoxyethylacetate	203-839-2	111-15-9	0.02	N.D.
46	*6 Strontiumchromate	232-142-6	7789-06-02	0.02	N.D.
47	1,2-Benzenedicarboxylicacid,di-C7-11-branchedand linearalkylesters(DHNUP)	271-084-6	68515-42-4	0.02	N.D.
48	Hydrazine	206-114-9	302-01-2 7803-57-8	0.02	N.D.
49	1-methyl-2-pyrrolidone	212-828-1	872-50-4	0.02	N.D.
50	1,2,3-trichloropropane	202-486-1	96-18-4	0.02	N.D.
51	1,2-Benzenedicarboxylicacid,di-C6-8-branchedalkyl esters(DIHP)	276-158-1	71888-89-6	0.02	N.D.
52	ZirconiaAluminosilicateRefractoryCeramicFibres *7	-	-	0.02	N.D.
53	*6 Calciumarsenate	231-904-5	7778-44-1	0.02	N.D.
54	Bis(2-methoxyethyl)ether	203-924-4	111-96-6	0.02	N.D.
55	*7 AluminosilicateRefractoryCeramicFibres	-	-	0.02	N.D.
56	*6 Potassiumhydroxyoctaoxidizincatedichromate	234-329-8	11103-86-9	0.02	N.D.
57	*4 Leaddipicrate	229-335-2	6477-64-1	0.02	N.D.
58	N,N-dimethylacetamide	204-826-4	127-19-5	0.02	N.D.
59	*6 Arsenicacid	231-901-9	7778-39-4	0.02	N.D.
60	2-Methoxyaniline;o-Anisidine	201-963-1	90-04-0	0.02	N.D.
61	*4 Trileaddiarsenate	222-979-5	3687-31-8	0.02	N.D.
62	1,2-dichloroethane	203-458-1	107-06-2	0.02	N.D.
63	*6 Pentazincchromateoctahydroxide	256-418-0	49663-84-5	0.02	N.D.
64	Formaldehyde,oligomericreactionproductswith aniline	500-036-1	25214-70-4	0.02	N.D.
65	Bis(2-methoxyethyl)phthalate	204-212-6	117-82-8	0.02	N.D.
66	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	0.02	N.D.
	Intertek Testing Services Korea Ltd. Seoul Office: Tel : 02-6090-9500 Fax : 02-3409-0025 Web Site : <a href="http://intertek.co.kr">intertek.co.kr</a> Seoul Lab. Address : 7, Achaesan-ro 5-gil, Seongdong-gu, Seoul, 04793 Korea Ulsan Lab. Address : 34, Yongam-gil, Chongryang-myeon, Ulsu-gun, Ulsan 44989 Korea	236-542-1	13424-46-9	0.02	N.D.



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### ( 시험 성적서 )

 발행면수 (PAGE) : 5 of 18  
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번호 (No.)	시험항목 (TESTITEM)	ECNo.	CASNo.	검출한계 (RL) (%(w/w))	시험결과 (RESULT) (%(w/w))
68	Phenolphthalein	201-004-7	77-09-08	0.02	N.D.
69	Dichromiumtris(chromate) *6	246-356-2	24613-89-6	0.02	N.D.
70	*4 Leadstypnate	239-290-0	15245-44-0	0.02	N.D.
71	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	0.02	N.D.
72	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol	229-851-8	6786-83-0	0.02	N.D.
73	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler'sbase)	202-959-2	101-61-1	0.02	N.D.
74	1,3,5-tris[(2Sand2R)-2,3-epoxypropyl]-1,3,5-triazine- 2,4,6-(1H,3H,5H)-trione( $\beta$ -TGIC)	423-400-0	59653-74-6	0.02	N.D.
75	*1 Diborontrioxide	215-125-8	1303-86-2	0.02	N.D.
76	1,2-bis(2-methoxyethoxy)ethane(TEGDME;triglyme)	203-977-3	112-49-2	0.02	N.D.
77	4,4'-bis(dimethylamino)-4''-(methylamino) tritylalcohol	209-218-2	561-41-1	0.02	N.D.
78	*4 Lead(II)bis(methanesulfonate)	401-750-5	17570-76-2	0.02	N.D.
79	Formamide	200-842-0	75-12-07	0.02	N.D.
80	[4-[4,4'-bis(dimethylamino)benzhydrylidene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride	208-953-6	548-62-9	0.02	N.D.
81	1,2-dimethoxyethane;ethyleneglycoldimethylether (EGDME)	203-794-9	110-71-4	0.02	N.D.
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl] methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammoniumchloride	219-943-6	2580-56-5	0.02	N.D.
83	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6- trione(TGIC)	219-514-3	2451-62-9	0.02	N.D.
84	4,4'-bis(dimethylamino)benzophenone (Michler'sketone)	202-027-5	90-94-8	0.02	N.D.
85	Bis(pentabromophenyl)ether(decabromodiphenyl ether;DecaBDE)	214-604-9	1163-19-5	0.02	N.D.
86	Pentacosafuorotridecanoicacid	276-745-2	72629-94-8	0.02	N.D.
87	Tricosafuorododecanoicacid	206-203-2	307-55-1	0.02	N.D.

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88	Henicosafuoroundecanoicacid	218-165-4	2058-94-8	0.02	N.D.
89	Heptacosafuorotetradecanoicacid	206-803-4	376-06-7	0.02	N.D.
90	Diazene-1,2-dicarboxamide(C,C'-azodi(formamide))	204-650-8	123-77-3	0.02	N.D.
91	Cyclohexane-1,2-dicarboxylicanhydride[1]cis-cyclohexane-1,2-dicarboxylicanhydride[2]trans-cyclohexane-1,2-dicarboxylicanhydride[3][The individualcis-[2]andtrans-[3]isomersubstances andallpossiblecombinationsofthecis-andtrans-isomers[1]arecoveredbythisentry]	201-604-9 236-086-3 238-009-9	85-42-7, 13149-00-3 14166-21-3	0.02	N.D.
92	Hexahydromethylphthalicanhydride[1], Hexahydro-4-methylphthalicanhydride[2], Hexahydro-1-methylphthalicanhydride[3], Hexahydro-3-methylphthalicanhydride[4] [Theindividualisomers[2],[3]and[4](including theircis-andtrans-stereoisomericforms)andall possiblecombinationsoftheisomers[1]arecovered bythisentry]	247-094-1 243-072-0 256-356-4 260-566-1	25550-51-0 19438-60-9 48122-14-1 57110-29-9	0.02	N.D.
93	4-Nonylphenol,branchedandlinear[substanceswith a linearand/orbranchedalkylchainwithacarbon numberof9covalentlyboundinposition4to phenol,coveringalsoUVCB-andwell-defined substanceswhichincludeanyoftheindividual isomersoracombinationthereof]	-	-	0.02	N.D.
94	4-(1,1,3,3-tetramethylbutyl)phenol,ethoxylated [coveringwell-definedsubstancesandUVCB substances,polymersandhomologues]	-	-	0.02	N.D.
95	Methoxyaceticacid	210-894-6	625-45-6	0.02	N.D.
96	N,N-dimethylformamide	200-679-5	68-12-2	0.02	N.D.
97	Dibutyltindichloride(DBTC)	211-670-0	683-18-1	0.02	N.D.
98	Leadmonoxide(Leadoxide) <sup>*4</sup>	215-267-0	1317-36-8	0.02	N.D.
99	Orangelead(Leadtetroxide) <sup>*4</sup>	215-235-6	1314-41-6	0.02	N.D.

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100	Leadbis(tetrafluoroborate) *4	237-486-0	13814-96-5	0.02	N.D.
101	*4 Trileadbis(carbonate)dihydroxide	215-290-6	1319-46-6	0.02	N.D.
102	Leadtitaniumtrioxide *4	235-038-9	12060-00-3	0.02	N.D.
103	Leadtitaniumzirconiumoxide *4	235-727-4	12626-81-2	0.02	N.D.
104	*4 Silicicacid,leadsalt	234-363-3	11120-22-2	0.02	N.D.
105	Silicicacid(H <sub>2</sub> SiO <sub>5</sub> ),bariumsalt(1:1),lead-doped *4	272-271-5	68784-75-8	0.02	N.D.
106	1-bromopropane(n-propylbromide)	203-445-0	106-94-5	0.02	N.D.
107	Methyloxirane(Propyleneoxide)	200-879-2	75-56-9	0.02	N.D.
108	1,2-Benzenedicarboxylicacid,dipentylester, branchedandlinear	284-032-2	84777-06-0	0.02	N.D.
109	Diisopentylphthalate(DIPP)	210-088-4	605-50-5	0.02	N.D.
110	N-pentyl-isopentylphthalate	-	776297-69-9	0.02	N.D.
111	1,2-diethoxyethane	211-076-1	629-14-1	0.02	N.D.
112	Aceticacid,leadsalt,basic *4	257-175-3	51404-69-4	0.02	N.D.
113	*4 Leadoxidesulfate	234-853-7	12036-76-9	0.02	N.D.
114	[Phthalato(2-)]dioxotrilead *4	273-688-5	69011-06-9	0.02	N.D.
115	Dioxobis(stearato)trilead *4	235-702-8	12578-12-0	0.02	N.D.
116	Fattyacids,C16-18,leadsalts *4	292-966-7	91031-62-8	0.02	N.D.
117	*4 Leadcyanamide	244-073-9	20837-86-9	0.02	N.D.
118	*4 Leaddinitrate	233-245-9	10099-74-8	0.02	N.D.
119	Pentaleadtetraoxidesulphate *4	235-067-7	12065-90-6	0.02	N.D.
120	*4 Pyrochlore,antimonyleadyellow	232-382-1	8012-00-8	0.02	N.D.
121	*4 Sulfurousacid,leadsalt,dibasic	263-467-1	62229-08-7	0.02	N.D.

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## TEST REPORT

(시험 성적서)

발행면수 (PAGE) : 8 of 18

발행일자 (DATE) : 2023. 01. 27.

시험성적서 번호 (REPORT NO.) : RT23R-S0389-003-K2

시료고유번호 (SAMPLE ID NO.) : RT23R-S0389-003

시료명 (SAMPLE DESCRIPTION) : PVC Resin (LS130S)  
(PVC Resin (LS130S))

번호 (No.)	시험항목 (TESTITEM)	ECNo.	CASNo.	검출한계 (RL) (%(w/w))	시험결과 (RESULT) (%(w/w))
122	*4 Tetraethyllead	201-075-4	78-00-2	0.02	N.D.
123	Tetraleadtrioxidesulphate *4	235-380-9	12202-17-4	0.02	N.D.
124	Trileaddioxidephosphonate *4	235-252-2	12141-20-7	0.02	N.D.
125	Furan	203-727-3	110-00-9	0.02	N.D.
126	Diethylsulphate	200-589-6	64-67-5	0.02	N.D.
127	Dimethylsulphate	201-058-1	77-78-1	0.02	N.D.
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	0.02	N.D.
129	Dinoseb(6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	0.02	N.D.
130	4,4'-methylenedi- <i>o</i> -toluidine	212-658-8	838-88-0	0.02	N.D.
131	4,4'-oxydianilineanditssalts	202-977-0	101-80-4	0.02	N.D.
132	4-aminoazobenzene	200-453-6	60-09-3	0.02	N.D.
133	4-methyl- <i>m</i> -phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	0.02	N.D.
134	6-methoxy- <i>m</i> -toluidine( <i>p</i> -cresidine)	204-419-1	120-71-8	0.02	N.D.
135	Biphenyl-4-ylamine	202-177-1	92-67-1	0.02	N.D.
136	<i>o</i> -aminoazotoluene [(4- <i>o</i> -tolylazo- <i>o</i> -toluidine)]	202-591-2	97-56-3	0.02	N.D.
137	<i>o</i> -toluidine	202-429-0	95-53-4	0.02	N.D.
138	<i>N</i> -methylacetamide	201-182-6	79-16-3	0.02	N.D.
139	Cadmium	231-152-8	7440-43-9	0.02	N.D.
140	Ammoniumpentadecafluorooctanoate(APFO)	223-320-4	3825-26-1	0.02	N.D.
141	Pentadecafluorooctanoicacid(PFOA)	206-397-9	335-67-1	0.02	N.D.
142	Dipentylphthalate(DPP)	205-017-9	131-18-0	0.02	N.D.
143	4-Nonylphenol,branchedandlinear,ethoxylated	-	-	0.02	N.D.
144	*3 Cadmiumoxide	215-146-2	1306-19-0	0.02	N.D.

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발행면수 (PAGE) : 9 of 18  
발행일자 (DATE) : 2023. 01. 27.

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(PVC Resin (LS130S))

번호 (No.)	시험항목 (TESTITEM)	ECNo.	CASNo.	검출한계 (RL) (%(w/w))	시험결과 (RESULT) (%(w/w))
145	*3 Cadmiumsulphide	215-147-8	1306-23-6	0.02	N.D.
146	Dihexylphthalate	201-559-5	84-75-3	0.02	N.D.
147	Disodium3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)(C.I.DirectRed28)	209-358-4	573-58-0	0.02	N.D.
148	Disodium4-amino-3-[[4'-[[2,4-diaminophenyl]azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate(C.I.DirectBlack38)	217-710-3	1937-37-7	0.02	N.D.
149	Imidazolidine-2-thione;2-imidazoline-2-thiol	202-506-9	96-45-7	0.02	N.D.
150	*4 Leaddi(acetate)	206-104-4	301-04-2	0.02	N.D.
151	Trixylylphosphate	246-677-8	25155-23-1	0.02	N.D.
152	1,2-Benzenedicarboxylicacid,dihexylester,branched andlinear	271-093-5	68515-50-4	0.02	N.D.
153	*3 Cadmiumchloride	233-296-7	10108-64-2	0.02	N.D.
154	Sodiumperborate; perboricacid,sodiumsalt *1	239-172-9; 234-390-0	-	0.02	N.D.
155	Sodiumperoxometaborate *1	231-556-4	7632-04-4	0.02	N.D.
156	*3 Cadmiumfluoride	232-222-0	7790-79-6	0.02	N.D.
157	*3 Cadmiumsulfate	233-331-6	10124-36-4 31119-53-6	0.02	N.D.
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol(UV-320)	223-346-6	3846-71-7	0.02	N.D.
159	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	0.02	N.D.
160	2-ethylhexyl10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	239-622-4	15571-58-1	0.02	N.D.
161	2-ethylhexyl10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoateand2-ethylhexyl10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	-	-	0.02	N.D.

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(시험 성적서)

발행면수 (PAGE) : 10 of 18  
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(PVC Resin (LS130S))

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162	1,2-benzenedicarboxylic acid, di-C6-10-alkylesters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥0.3% of dihexyl phthalate	271-094-0 272-013-1	68515-51-5 68648-93-1	0.02	N.D.
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 stereoisomers of [1] and [2] or any combination thereof]	-	-	0.02	N.D.
164	1,3-propanesultone	214-317-9	1120-71-4	0.02	N.D.
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	0.02	N.D.
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	0.02	N.D.
167	Nitrobenzene	202-716-0	98-95-3	0.02	N.D.
168	Perfluorononanoic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-heptafluorononanoic acid and its sodium and ammonium salts)	206-801-3	375-95-1 21049-39-8 4149-60-4	0.02	N.D.
169	Benzo[def]chrysene (Benzo[a]pyrene)	200-028-5	50-32-8	0.02	N.D.
170	4,4'-isopropylidene diphenol (Bisphenol-A)	201-245-8	80-05-7	0.02	N.D.
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3 221-470-5	3108-42-7 335-76-2 3830-45-3	0.02	N.D.
172	P-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	0.02	N.D.
173	4-Heptylphenol, branched and linear	-	-	0.02	N.D.
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	206-587-1	355-46-4	0.02	N.D.
175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[6.9.2.1.3.5.10]octadeca-7,15-diene <sup>TM</sup> ("DechloranePlus") [covering any of its individual anti- and syn-isomers or any combination thereof]	236-948-9	13560-89-9	0.02	N.D.
176	Benz[a]anthracene	200-280-6	56-55-3 1718-53-2	0.02	N.D.
177	*3 Cadmium nitrate	233-710-6	10325-94-7	0.02	N.D.

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### ( 시험 성적서 )

발행면수 (PAGE) : 11 of 18  
발행일자 (DATE) : 2023. 01. 27.

시험성적서 번호 (REPORT NO.) : RT23R-S0389-003-K2

시료고유번호 (SAMPLE ID NO.) : RT23R-S0389-003

시료명 (SAMPLE DESCRIPTION) : PVC Resin (LS130S)  
(PVC Resin (LS130S))

번호 (No.)	시험항목 (TESTITEM)	ECNo.	CASNo.	검출한계 (RL) (%(w/w))	시험결과 (RESULT) (%(w/w))
178	*3 Cadmiumcarbonate	208-168-9	513-78-0	0.02	N.D.
179	*3 Cadmiumhydroxide	244-168-5	21041-95-2	0.02	N.D.
180	Chrysene	205-923-4	218-01-9	0.02	N.D.
181	Reactionproductsof1,3,4-thiadiazolidine-2,5-dithione,formaldehydeand4-heptylphenol, branchedandlinear(RP-HP)[with≥0.1%w/w4-heptylphenol,branchedandlinear]	-	-	0.02	N.D.
182	Benzo[ghi]perylene	205-883-8	191-24-2	0.02	N.D.
183	Decamethyl-cyclopentasiloxane(D5)	208-764-9	541-02-6	0.02	N.D.
184	*1 Disodiumoctaborate	234-541-0	12008-41-2	0.02	N.D.
185	Dodecamethyl-cyclohexasiloxane(D6)	208-762-8	540-97-6	0.02	N.D.
186	Ethylenediamine(EDA)	203-468-6	107-15-3	0.02	N.D.
187	Lead	231-100-4	7439-92-1	0.02	N.D.
188	Octamethyl-cyclotetrasiloxane(D4)	209-136-7	556-67-2	0.02	N.D.
189	Terphenylhydrogenated	262-967-7	61788-32-7	0.02	N.D.
190	Benzene-1,2,4-tricarboxylicacid1,2anhydride (trimelliticanhydride;TMA)	209-008-0	552-30-7	0.02	N.D.
191	Dicyclohexylphthalate(DCHP)	201-545-9	84-61-7	0.02	N.D.
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6	0.02	N.D.
193	Fluoranthene	205-912-4	206-44-0	0.02	N.D.
194	Benzo[k]fluoranthene	205-916-6	207-08-9	0.02	N.D.
195	Pyrene	204-927-3	129-00-0	0.02	N.D.
196	Phenanthrene	201-581-5	85-01-8	0.02	N.D.
197	1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one	239-139-9	15087-24-8	0.02	N.D.

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발행면수 (PAGE) : 12 of 18  
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198	4-tert-butylphenol	202-679-0	98-54-4	0.02	N.D.
199	2-methoxyethylacetate	203-772-9	110-49-6	0.02	N.D.
200	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	0.02	N.D.
201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acylhalides (covering any of their individual isomers and combinations thereof)	-	-	0.02	N.D.
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3	119313-12-1	0.02	N.D.
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	400-600-6	71868-10-5	0.02	N.D.
204	Diisohexylphthalate	276-090-2	71850-09-4	0.02	N.D.
205	Perfluorobutanesulfonic acid (PFBS) and its salts	-	-	0.02	N.D.
206	1-vinylimidazole	214-012-0	1072-63-5	0.02	N.D.
207	2-methylimidazole	211-765-7	693-98-1	0.02	N.D.
208	Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4	0.02	N.D.
209	Butyl 4-hydroxybenzoate	202-318-7	94-26-8	0.02	N.D.
210	Bis(2-(2-methoxyethoxy)ethyl)ether	205-594-7	143-24-8	0.02	N.D.
211	Dioctyltin dilaurate, stannane, dioctyl-, bis(cocoacyloxy) derivs., and any other stannane, dioctyl-, bis(fattyacyloxy) derivs. wherein C12 is the predominant carbon number of the fattyacyloxy moiety	-	-	0.02	N.D.
212	1,4-dioxane	204-661-8	123-91-1	0.02	N.D.
213	2,2-bis(bromomethyl)propane 1,3-diol (BMP) 2,2-dimethylpropan-1-ol, tribromoderivative / 3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) 2,3-dibromo-1-propanol (2,3-DBPA)	221-967-7 253-057-0 202-480-9	3296-90-0 36483-57-5 1522-92-5 96-13-9	0.02	N.D.

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발행면수 (PAGE) : 13 of 18  
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214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	-	0.02	N.D.
215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	201-025-1	77-40-7	0.02	N.D.
216	Glutaral	203-856-5	111-30-8	0.02	N.D.
217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than one equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	-	0.02	N.D.
218	Orthoboric acid, sodium salt <sup>*1</sup>	237-560-2	13840-56-7	0.02	N.D.
219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/or combination thereof (PDDP)	-	-	0.02	N.D.
220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combination thereof (4-MBC)	-	-	0.02	N.D.
221	6,6'-di-tert-butyl-2,2'-methylene di-p-cresol	204-327-1	119-47-1	0.02	N.D.
222	S-(tricyclo(5.2.1.0' <sup>2</sup> ,6)deca-3-en-8(or9)-ylO-(isopropyl or isobutyl or 2-ethylhexyl)O-(isopropyl or isobutyl or 2-ethylhexyl)phosphorodithioate	401-850-9	255881-94-8	0.02	N.D.
223	Tris(2-methoxyethoxy)vinylsilane	213-934-0	1067-53-4	0.02	N.D.
224	N-(hydroxymethyl)acrylamide	213-103-2	924-42-5	0.02	N.D.
225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	253-692-3	37853-59-1	0.02	N.D.
226	2,2',6,6'-tetrabromo-4,4'-isopropylidene diphenol	201-236-9	79-94-7	0.02	N.D.
227	4,4'-sulphonyl diphenol	201-250-5	80-09-1	0.02	N.D.
228	Barium diboron tetraoxide <sup>*1</sup>	237-222-4	13701-59-2	0.02	N.D.
229	Bis(2-ethylhexyl)tetrabromophthalate	247-426-5	26040-51-7	0.02	N.D.
230	Isobutyl 4-hydroxybenzoate	224-208-8	4247-02-3	0.02	N.D.

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(시험 성적서)

발행면수 (PAGE) : 14 of 18

발행일자 (DATE) : 2023. 01. 27.

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(PVC Resin (LS130S))

번호 (No.)	시험항목 (TESTITEM)	ECNo.	CASNo.	검출한계(RL) (%(w/w))	시험결과 (RESULT) (%(w/w))
231	Melamine	203-615-4	108-78-1	0.02	N.D.
232	Perfluoroheptanoicacidanditsalts	-	-	0.02	N.D.
233	reactionmassof2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and2,2,3,3,5,5,6,6-octafluoro-4-(hexafluoroisopropyl)morpholine	473-390-7	-	0.02	N.D.

Tested by : (주)에이치케이, 101, Hyeon Park

Notes : 1 % (w/w) = 10000 ppm = 10000 mg/kg

&lt; = Less than

N.D. = Not detected (&lt; RL)

RL = Reporting limit

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## TEST REPORT (시험 성적서)

발행면수 (PAGE) : 15 of 18

발행일자 (DATE) : 2023. 01. 27.

시험성적서 번호 (REPORT NO.) : RT23R-S0389-003-K2

시료고유번호 (SAMPLE ID NO.) : RT23R-S0389-003

시료명 (SAMPLE DESCRIPTION) : PVC Resin (LS130S)  
(PVC Resin (LS130S))

## Remark :

- \*1 The concentration of the substance is calculated on the basis of the content of specific elements, such as B, Na, P, S and Ba.
- \*2 The concentration of the substance is calculated on the basis of the content of specific elements, such as Co, Cl.
- \*3 The concentration of the substance is calculated on the basis of the content of specific elements, such as Cd, Cl.
- \*4 The concentration of the substance is calculated on the basis of the content of specific elements, such as Pb, As, B, Ti and Zr.
- \*5 The concentration of the substance is calculated on the basis of the content of specific elements, such as Pb, Cr and Cr<sup>6+</sup>.
- \*6 The concentration of the substance is calculated on the basis of the content of specific elements, such as As, Ca, Cr, Cr<sup>6+</sup>, K, Na, Sr and Zn.
- \*7 The existence of RCFs would be checked using the PLM after screening test of inorganic elements such as Al, Zr and Si. If positive, the concentration of the substances would be calculated on the basis of the content of specific elements.
- \*8 The concentration of the various anthracene oils is based on screening test result of anthracene.
- \*9 The concentration of coal tar pitch, high temp. is calculated on sum total of 12 PAHs.

Definition under 67/548/EEC and Regulation (EC) No 1907/2006

Substances of very high concern (SVHC) are defined in Article 57 of Regulation (EC) No 1907/2006 (the REACH Regulation) and the candidate list published by European Chemicals Agency (ECHA) before and 17 January 2023 and the main categories of SVHCs are CMR, PBT and vPvB compounds. The Candidate List will be regularly updated by ECHA when more substances are identified as SVHC; (Referred to <http://echa.europa.eu/candidate-list-table>)

- **C** Carcinogenic - category 1 or 2 (Directive 67/548/EEC)
- **M** Mutagenic - category 1 or 2 (Directive 67/548/EEC)
- **R** toxic for Reproduction - category 1 or 2 (Directive 67/548/EEC)
- **PBT** Persistent, Bioaccumulative and Toxic -see Annex XIII
- **vPvB** very Persistent and very Bioaccumulative - see Annex XIII
- Substances of equivalent level of concern (like endocrine disruptors)

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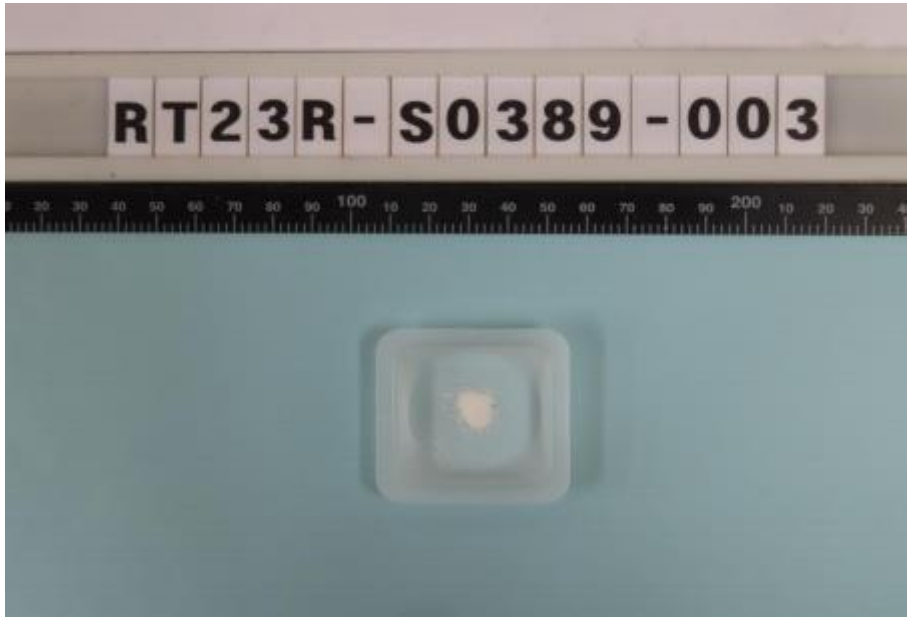
**TEST REPORT**  
(시험 성적서)

발행면수 (PAGE) : 16 of 18

발행일자 (DATE) : 2023. 01. 27.

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시료고유번호 (SAMPLE ID NO.) : RT23R-S0389-003

시료명 (SAMPLE DESCRIPTION) : PVC Resin (LS130S)  
(PVC Resin (LS130S))\* 시료 접수 시 시료 상태 :  
(View of sample as received)

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시료명 (SAMPLE DESCRIPTION) : PVC Resin (LS130S)

(PVC Resin (LS130S))

\* REACH 규정에 따른 물질, 제제 및 완제품에 대한 정의  
(Definition of a substance, a preparation and an article according Article 3 of the REACH Regulation)

- a **substance** is a chemical element and its compounds in the natural state or obtained by any manufacturing process, including any additive necessary to preserve its stability and any impurity deriving from the process used, but excluding any solvent which may be separated without affecting the stability of the substance or changing its composition;
- a **preparation** is a mixture or solution composed of two or more substances;
- an **article** (product) is an object which during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition.

\* 화학물질 안전자료 자료제공에 대한 의무 및 관련정보

(Available information for general obligation and information requirements)

- 물질 (Substances)  
**Provide safety data sheet** ; As per Article 31 of the REACH Regulation (EC No. 1907/2006), suppliers of substances on the Candidate List have to provide their customers with a safety data sheet from the date of inclusion.
- 제제 (Preparations)  
**Provide safety data sheet** ; As per Article 31 of the REACH Regulation (EC No. 1907/2006), supplier of preparation not classified as dangerous according to Directive 1999/45/EC must provide the recipients, at their request, with a safety data sheet if the preparation contains at least one of the tested substances at 0.1 % (w/w) or above for non gaseous preparation and at least 0.2 % by volume for gaseous preparations sheet from the date of inclusion.
- 완제품 (Articles)

**Notification** ; As per Article 7(2) of Regulation (EC) No 1907/2006 (REACH), EU and EEA producers or importers of articles have to notify ECHA if 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. Notification is required beginning June 1, 2011.

**Safe use information** ; As per Article 33 of Regulation (EC) No 1907/2006 (REACH), EU or EEA suppliers of articles which contain substances on the Candidate List in a concentration above 0.1 % (w/w) have to provide sufficient information, available to them, to their customers or upon requests, to a consumer within 45 days of the receipt of the request. This information must ensure safe use of the article and as minimum contain the name of the substance. The effective date for the safe use information requirement is six months after the SVHC is placed on the Candidate List.

Disclaimers ;

This testing report for 15 new substances of very high concern (SVHC) in Candidate List announced by European Chemicals Agency (ECHA) is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in assessment report is sufficient for its/his/her purposes.

The quantitative screening results shown in this testing report will be in relation to various factors, including but not limited to, the weight or size of dismantled component and composite test approach, etc. If the contents of SVHC are out of the threshold, further identification is recommended to obtain the information of SVHC in each material.

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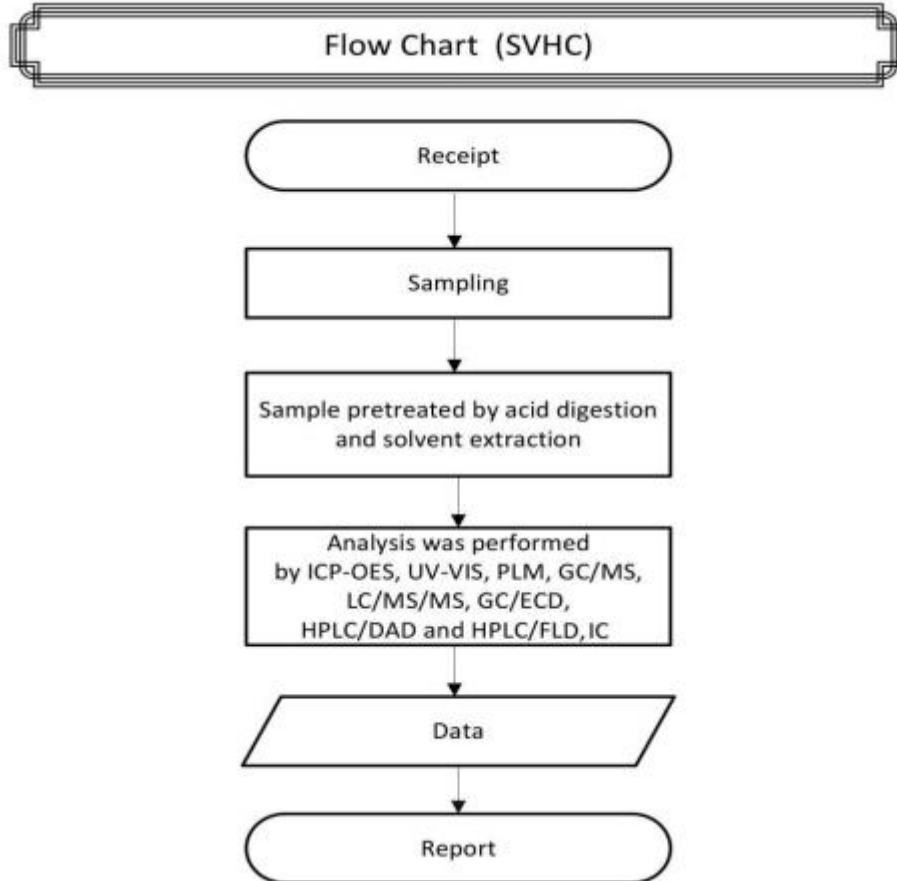
발행면수 (PAGE) : 18 of 18

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\*\*\*\*\* End of Report \*\*\*\*\*

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