Test Report - Products



Test Report No.:	180211973c 001	age 1 of 14	
Client:	Taizhou Kinsuny Optoelectronics Technol	ogy Co.,Ltd.	
Contact Information:	Buliding 45,Juxing Industrial Area, Xiachen Town, Jiaojiang, Taizhou, Zhejiang, China		
Identification/	Led lighting plastic housing		
Model No(s): KZN0175, KZN0375, KJN0475, KZN0575, KZN0785A, KZN0885A, KZN01175, KZN01370A, KZN01775, KZN09100A, KZN010100A, KJN01275, KFN02075, KZG0475			
Sample obtaining method:	Sample obtaining method: Sending by customer		
Condition at delivery:	Test item complete and undamaged.		
Sample Receiving date:	2023-03-15		
Test period:	2023-03-15 to 2023-03-29		
Test specification:		Test result:	
Customer's requirement:SVHC concentration(s)1. Risk Assessment of Articles: Screening of substances of very high concern (SVHC) subject to the candidate list by European Chemical Agency (ECHA) according to Regulation (EC) No. 1907/2006 of REACH and its amendmentsSVHC concentration(s) ≤ 0.1%			

Other Information: Country of Origin: China Remark: ^According to customer's requirement, only the appointed materials have been tested.

For and on behalf of TÜV Rheinland / CCIC (Ningbo) Co., Ltd.

Date

2023-04-18 Xianqiang Xie / Department Manager

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed. This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

"Decision Rule" document announced in our website (https://www.tuv.com/landingpage/en/qm-gcn/) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

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Remark:

Taizhou Kinsuny Optoelectronics Technology Co.,Ltd. declared that the following models and test model KZN0175, KZN0375, KJN0475, KZN0575, KZN0785A, KZN0885A, KZN01175C, KZN01370A, KZN01775, KZN09100A, KZN010100A, KJN01275, KFN02075, KZG0475 are the same serials, all components were made by the same raw material but different in shapes and sizes. Taizhou Kinsuny Optoelectronics Technology Co.,Ltd. will be responsible for this statement.

Reference No.

KZN0275, KZN038080, KZN0380160, KZN0380240, KZN0375-B, KZN0375-C, KZN0395, KZN03100100, KZN03100200, KZN03100300, KJN048080, KJN0480160, KJN0480240, KZN058080, KZN0580160, KZN0580240, KJN0670, KZN0785B, KZN0775A, KZN0885B, KZN0875A, KZN09100B, KZN09100C, KZN09100D, KZN09100-E, KZN09100-F, KZN09100-1, KZN09100-2, KZN09186A, KZN09186B, KZN09186C, KZN09186D, KZN09186-E, KZN09186-F, KZN09186-1, KZN09186-2, KZN010100B, KZN010100C, KZN010100D, KZN010100-E, KZN010100-F, KZN010100-1, KZN010100-2, KZN01085, KZN010186A, KZN010186B, KZN010186C, KZN010186D, KZN010186-E, KZN010186-F, KZN010186-1, KZN010186-2, KZN01175A, KZN01175B, KJN0128080, KJN01280160, KJN01280240, KZN01370B, KZN01370C, KZN01475, KZN0148080, KZN01575, KZN0158080, KZN01670, KZN017100, KZN0178080, KZN01780160, KZN01780240, KZN01870, KZN01875A, KZN01875B, KZN01875C, KZN01975-A, KZN01975-B, KZN01975-C, KZN01975-D, KZN01975-E, KZN01975-F, KZN01975-G, KZN01975-H, KZN01985-A, KZN01985-B, KZN01985-C, KZN01985-D, KZN01985-E, KZN01985-F, KZN01985-G, KZN01985-H, KZN02175-A, KZN021100-A, KZN0218080-A, KZN02180160-A, KZN02180240-A, KZN02175-B, KZN021100-B, KZN0218080-B, KZN02180160-B, KZN02180240-B, KZN03-STAR, KJN04-STAR, KZN05-STAR, KZN03100, KJN04100, KZN05100, KJN012100, KGX53-01Q, KGX53-01M, KZG0395, KZG03125, KZG0395-MQ, KZG03125-MQ, KZG0395-M, KZG03125-M, KZG0395-Q, KZG03125-Q, KFN0208080, KFN0201975, KFN020100, KQN03Q, KQN04Q, KQN04R, KQN05R, KZN03135, KZN03135135, KZE27-A, KZE27-B, KZN022110110, KZN022110220, KZN0375-R, KZN038080C-R, KJN0475-R, KJN048080-R, KZN0575-R, KZN058080-R, KZN09100-T, KZN09186-T, KZN01155-A. KZN01155-B. KZN-**, KZG-**, KFN- **, KJN-**, KQN-** (** represents 00000000-999999999 with the same material but different appearance)



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Material List:

Item: Led lighting plastic housing

Material No.	Material	Color	Location
M001	Plastic	black	refer to photo
M002	Plastic	silver	refer to photo
M003	Plastic	white	refer to photo
M004	Plastic	golden	refer to photo
M005	Plastic	rose gold	refer to photo
M006	Plastic	silver	refer to photo
M007	Plastic	golden	refer to photo
M008	Plastic	black	refer to photo
M009	Plastic	dark magenta	refer to photo
M010	Plastic	blue	refer to photo
M011	Plastic	dark red	refer to photo
M012	Plastic	green	refer to photo
M013	Plastic + coating	golden	refer to photo
M014	Plastic + coating	silver	refer to photo
M015	Plastic + coating	black	refer to photo
M016	Plastic + coating	yellow	refer to photo
M017	Plastic	black	refer to photo
M018	Metal	silver	refer to photo
M019	Metal	silver	refer to photo
M020	Metal	silver	refer to photo

Products



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1. Screening of substances of very high concern (SVHC) subject to the candidate list by European Chemical Agency (ECHA) according to Regulation (EC) No. 1907/2006 of REACH and its amendments

Obligation of Importer is necessary if the detected SVHC concentration in article level is >0.1%:

To communicate information down the supply chain according to article. 33 of REACH. OR

1. Notification to ECHA, if the quantities of SVHC in the produced/imported articles are above 1 ton in total per year per company.

2. Provide sufficient information to ensure safe use of the article and, as a minimum, include the name of the substance, to their customers and on request to consumers within 45 days of the receipt of this request.

Test Method: 1) SVOC: organic solvent extraction, determination by GC-MS/ECD

2) VOC: organic solvent extraction, determination by GC-MS

3) VVOC: headspace-GC/MS analysis

- 4) non-VOC: organic solvent extraction, determination by LC-MS/MS.
- 5) inorganics: acid digestion, determination by ICP-OES

Test Results:

Test No.	Material No.	Result (%)
T001	M001+M002+M003+M004+M005+ M006+M007+M008+M009+M010	<rl< td=""></rl<>
T002	M011+M012+M013+M014+M015 +M016+M017	<rl< td=""></rl<>
T003	M018+M019+M020	<rl< td=""></rl<>

Abbreviation:

- < = Less than
- RL = Reporting Limit
- % = Percentage



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Remark:

(*1) The reporting limit for each individual SVHC in Candidate List by ECHA:

	Substances	CAS No.	Reporting Limit
1	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	0.01%
2	Benzyl butyl phthalate (BBP)	85-68-7	0.01%
3	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.01%
4	Dibutyl phthalate (DBP)	84-74-2	0.01%
5	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	25637-99-4 / 3194-55-6 / 134237-50-6 / 134237-51-7 / 134237-52-8	0.01%
6	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	0.01%
7	2,4-Dinitrotoluene (2,4-DNT)	121-14-2	0.01%
8	Diisobutyl phthalate (DIBP)	84-69-5	0.01%
9	Tris(2-chloroethyl)phosphate	115-96-8	0.01%
10	Diarsenic pentaoxide (*2)	1303-28-2	0.01%
11	Diarsenic trioxide (*2)	1327-53-3	0.01%
12	Lead chromate (*2) (*3)	7758-97-6	0.01%
13	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (*2) (*3)	12656-85-8	0.01%
14	Lead sulfochromate yellow (C.I. Pigment Yellow 34) (*2)	1344-37-2	0.01%
15	Trichloroethylene	79-01-6	0.01%
16	Chromium trioxide (*2)	1333-82-0	0.01%
17	Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid. (*2)	7738-94-5 / 13530-68-2	0.01%
18	Sodium dichromate) (*2) (*3)	7789-12-0 / 10588-01-9	0.01%
19	Potassium dichromate (*2) (*3)	7778-50-9	0.01%
20	Ammonium dichromate (*2) (*3)	7789-09-5	0.01%
21	Potassium chromate (*2) (*3)	7789-00-6	0.01%
22	Sodium chromate (*2) (*3)	7775-11-3	0.01%
23	Formaldehyde, oligomeric reaction products with aniline (technical MDA) (*10)	25214-70-4	0.01%
24	1,2-Dichloroethane	107-06-2	0.01%
25	Bis(2-methoxyethyl) ether	111-96-6	0.01%
26	Arsenic acid (*2)	7778-39-4	0.01%
27	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	0.01%
28	Dichromium tris(chromate) (*2) (*3)	24613-89-6	0.01%
29	Strontium chromate (*2) (*3)	7789-06-2	0.01%
30	Potassium hydroxyoctaoxodizincatedichromate (*2) (*3)	11103-86-9	0.01%
31	Pentazinc chromate octahydroxide (*2) (*3)	49663-84-5	0.01%
32	1-bromopropane (n-propyl bromide)	106-94-5	0.01%
33	Diisopentylphthalate	605-50-5	0.01%
34	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	0.01%

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35	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	0.01%
36	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.01%
	Substances	CAS No.	Reporting Limit
37	Bis(2-methoxyethyl) phthalate	117-82-8	0.01%
38	Dipentyl phthalate (DPP)	131-18-0	0.01%
39	N-pentyl-isopentylphthalate	776297-69-9	0.01%
40	Anthracene oil (*6)	90640-80-5	0.01%(*7)
41	Pitch, coal tar, high temperature (*6)	65996-93-2	0.01%(*7)
	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated (OPEO)		
42	[covering well-defined substances and UVCB substances, polymers and homologues]	-	0.01%
	4-Nonylphenol, branched and linear		
43	[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]	-	0.01%
44	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.01%
45	Dihexyl phthalate	84-75-3	0.01%
46	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 (EC No. 201-559-5)	68515-51-5 / 68648-93-1	0.01%
47	Trixylyl phosphate	25155-23-1	0.01%
48	Sodium perborate, perboric acid, sodium salt (*2) (*5)	-	0.01%
49	Sodium peroxometaborate (*2) (*5)	7632-04-4	0.01%
50	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]	-	0.01%
51	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.01%
52	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.01%
53	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.01%
54	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.01%
55	Anthracene	120-12-7	0.01%
56	Bis(tributyltin) oxide (TBTO) (*4)	56-35-9	0.01%
57	Triethyl arsenate (*2)	15606-95-8	0.01%
58	Lead hydrogen arsenate (*2)	7784-40-9	0.01%
59	Cobalt dichloride (*2)	7646-79-9	0.01%
60	Acrylamide	79-06-1	0.01%
61	Anthracene oil, anthracene paste, distn. lights (*6)	91995-17-4	
62	Anthracene oil, anthracene paste, anthracene fraction (*6)	91995-15-2	0.01% (*7)
63	Anthracene oil, anthracene-low (*6)	90640-82-7	0.0170 (7)
64	Anthracene oil, anthracene paste (*6)	90640-81-6	
65	Boric acid (*2) (*5)	10043-35-3 / 11113-50-1	0.01%
66	Disodium tetraborate, anhydrous (*2) (*5)	1303-96-4 / 1330-43-4 / 12179-04-3	0.01%
67	Tetraboron disodium heptaoxide, hydrate (*2) (*5)	12267-73-1	0.01%
68	2-Methoxyethanol	109-86-4	0.01%
69	2-Ethoxyethanol	110-80-5	0.01%



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70	Cobalt(II) sulphate (*2)	10124-43-3	0.01%
71	Cobalt(II) dinitrate (*2)	10141-05-6	0.01%
72	Cobalt(II) carbonate (*2)	513-79-1	0.01%
73	Cobalt(II) diacetate (*2)	71-48-7	0.01%
74	Alkanes C10-C13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	0.01%
	Substances	CAS No.	Reporting Limit
75	2-Ethoxyethyl acetate	111-15-9	0.01%
76	Hydrazine	302-01-2 / 7803-57-8	0.01%
77	1-Methyl-2-pyrrolidone (NMP)	872-50-4	0.01%
78	1,2,3-Trichloropropane	96-18-4	0.01%
79	Aluminosilicate Refractory Ceramic Fibres (RCF) (*8)	-	0.01%
80	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) (*8)	-	0.01%
81	2-Methoxyaniline,o-Anisidine	90-04-0	0.01%
82	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.01%
83	Calcium arsenate (*2)	7778-44-1	0.01%
84	Trilead diarsenate (*2)	3687-31-8	0.01%
85	N,N-dimethylacetamide (DMAC)	127-19-5	0.01%
86	Phenolphthalein	77-09-8	0.01%
87	Lead dipicrate (*2)	6477-64-1	0.01%
88	Lead diazide, Lead azide (*2)	13424-46-9	0.01%
89	Lead styphnate (*2)	15245-44-0	0.01%
90	1,2-bis(2-methoxyethoxy)ethane (TEGDME,triglyme)	112-49-2	0.01%
91	1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME)	110-71-4	0.01%
92	Diboron trioxide (*2) (*5)	1303-86-2	0.01%
93	Formamide	75-12-7	0.01%
94	Lead(II) bis(methanesulfonate) (*2)	17570-76-2	0.01%
95	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	
96	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	0.01%
97	4,4'-bis(dimethylamino)benzophenone (Michler's ketone), MK	90-94-8	0.01%
98	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base), RMK	101-61-1	0.01%
99	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene] cyclohexa-2,5-dien- 1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*2)	2580-56-5	0.01%
100	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1- ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*9)	548-62-9	
101	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*9)	561-41-1	
102	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*9)	6786-83-0	
103	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	0.01%
104	Pentacosafluorotridecanoic acid	72629-94-8	0.01%
105	Tricosafluorododecanoic acid	307-55-1	0.01%



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106	Henicosafluoroundecanoic acid	2058-94-8	0.01%
107	Heptacosafluorotetradecanoic acid	376-06-7	0.01%
108	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA) (*11)	123-77-3	0.05%
109	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	0.01%
	Substances	CAS No.	Reporting Limit
	Hexahydromethylphthalic anhydride (MHHPA) [1],		5
110	Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0 / 19438-60-9 / 48122-14-1 / 57110-29-9	0.01%
111	N,N-dimethylformamide	68-12-2	0.01%
112	1,2-Diethoxyethane	629-14-1	0.01%
113	Diethyl sulphate	64-67-5	0.01%
114	Methoxyacetic acid (MAA)	625-45-6	0.01%
115	Dimethyl sulphate	77-78-1	0.01%
116	N-methylacetamide	79-16-3	0.01%
117	Furan	110-00-9	0.01%
118	Methyloxirane (Propylene oxide)	75-56-9	0.01%
119	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.01%
120	Dibutyltin dichloride (DBTC) (*15)	683-18-1	0.01%
121	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	0.01%
122	4,4'-methylenedi-o-toluidine	838-88-0	0.01%
123	4,4'-oxydianiline and its salts	101-80-4	0.01%
124	4-Aminoazobenzene	60-09-3	0.01%
125	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	0.01%
126	6-methoxy-m-toluidine (p-cresidine)	120-71-8	0.01%
127	Biphenyl-4-ylamine	92-67-1	0.01%
128	o-aminoazotoluene	97-56-3	0.01%
129	o-Toluidine	95-53-4	0.01%
130	Acetic acid, lead salt, basic (*2)	51404-69-4	0.01%
131	Trilead bis(carbonate) dihydroxide (*2)	1319-46-6	0.01%
132	Lead oxide sulfate (*2)	12036-76-9	0.01%
133	[Phthalato(2-)]dioxotrilead (*2)	69011-06-9	0.01%
134	Dioxobis(stearato)trilead (*2)	12578-12-0	0.01%
135	Fatty acids, C16-18, lead salts (*2)	91031-62-8	0.01%
136	Lead bis(tetrafluoroborate) (*2)	13814-96-5	0.01%
137	Lead cyanamidate (*2)	20837-86-9	0.01%
138	Lead dinitrate (*2)	10099-74-8	0.01%
139	Lead monoxide (lead oxide) (*2)	1317-36-8	0.01%

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140	Orange lead (lead tetroxide) (*2)	1314-41-6	0.01%
141	Lead titanium trioxide (*2)	12060-00-3	0.01%
142	Lead titanium zirconium oxide (*2)	12626-81-2	0.01%
143	Pyrochlore, antimony lead yellow (*2)	8012-00-8	0.01%
144	Pentalead tetraoxide sulphate (*2)	12065-90-6	0.01%
145	Silicic acid $(H_2Si_2O_5)$, barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD), the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008] (*2)	68784-75-8	0.01%
146	Silicic acid, lead salt (*2)	11120-22-2	0.01%
147	Sulfurous acid, lead salt, dibasic (*2)	62229-08-7	0.01%
148	Tetraethyllead (*2)	78-00-2	0.01%
	Substances	CAS No.	Reporting Limit
149	Tetralead trioxide sulphate (*2)	12202-17-4	0.01%
150	Trilead dioxide phosphonate (*2)	12141-20-7	0.01%
151	Ammonium pentadecafluorooctanoate (APFO) (*12)	3825-26-1	0.01%
152	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.01%
153	Cadmium (*2)	7440-43-9	0.01%
154	Cadmium oxide (*2)	1306-19-0	0.01%
	4-Nonylphenol, branched and linear, ethoxylated (NPEO)		
155	[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]	-	0.01%
156	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.01%
157	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)	573-58-0	0.01%
	(C.I. Direct Red 28)		
158	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5- hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate	1937-37-7	0.01%
	(C.I. Direct Black 38)		
159	Lead di(acetate) (*2)	301-04-2	0.01%
160	Cadmium sulphide (*2)	1306-23-6	0.01%
161	Cadmium chloride (*2)	10108-64-2	0.01%
162	Cadmium fluoride (*2)	7790-79-6	0.01%
163	Cadmium sulphate (*2)	10124-36-4 / 31119-53-6	0.01%
164	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) (*13)	15571-58-1	0.01%
165	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) (*14)	-	0.01%
166	1,3-propanesultone	1120-71-4	0.01%
167	Nitrobenzene	98-95-3	0.01%
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 / 21049-39-8 /	0.01%
		4149-60-4 /	



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169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.01%
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.01%
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 / 3830-45-3 / 3108-42-7	0.01%
172	4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	0.01%
173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.01%
174	Perfluorohexane-1-sulfonic acid and its salts (PFHxS)	-	0.01%
175	Chrysene	218-01-9	0.01%
176	Benzo[a]anthracene	56-55-3	0.01%
177	Cadmium nitrate(*2)	10325-94-7	0.01%
178	Cadmium hydroxide(*2)	21041-95-2	0.01%
179	Cadmium carbonate(*2)	513-78-0	0.01%
	Substances	CAS No.	Reporting Limit
180	1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.1 ^{6,9} .0 ^{2,13} .0 ^{5,10}]octadeca-7,15-diene ("Dechlorane Plus"TM) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.01%
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]	-	0.01%
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride, TMA)	552-30-7	0.01%
183	Dicyclohexyl phthalate (DCHP)	84-61-7	0.01%
184	Terphenyl, hydrogenated	61788-32-7	0.01%
185	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.01%
186	Decamethylcyclopentasiloxane (D5)	541-02-6	0.01%
187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.01%
188	Ethylenediamine (EDA)	107-15-3	0.01%
189	Lead	7439-92-1	0.01%
190	Disodium octaborate(*2) (*5)	12008-41-2	0.01%
191	Benzo[ghi]perylene	191-24-2	0.01%
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.01%
193	Benzo[k]fluoranthene	207-08-9	0.01%
194	Fluoranthene	206-44-0	0.01%
195	Phenanthrene	85-01-8	0.01%
	Pyrene	129-00-0	0.01%
196			
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan- 2-one	15087-24-8	0.01%
	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan- 2-one 2-methoxyethyl acetate	15087-24-8 110-49-6	0.01% 0.01%
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan- 2-one 2-methoxyethyl acetate Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)		
197 198	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan- 2-one 2-methoxyethyl acetate Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-		0.01%
197 198 199	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan- 2-one 2-methoxyethyl acetate Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP) 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl	- 110-49-6	0.01%



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203	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.01%
200	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.01%
204	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.01%
200	1-vinylimidazole	1072-63-5	0.01%
207	2-methylimidazole	693-98-1	0.01%
208	Butyl 4-hydroxybenzoate	94-26-8	0.01%
209	Dibutylbis(pentane-2,4-dionato-O,O')tin(*15)	22673-19-4	0.01%
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	0.01%
211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety (*13)	-	0.01%
212	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.01%
213	Orthoboric acid, sodium salt (*2) (*5)	13840-56-7	0.01%
214	2,2-bis(bromomethyl)propane1,3-diol (BMP) 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1- propanol (TBNPA) 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0 / 36483-57-5 / 1522-92-5 / 96-13-9	0.01%
215	Glutaral	111-30-8	0.01%
	Substances	CAS No.	Reporting Limit
216	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.01%
217	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.01%
218	1,4-dioxane	123-91-1	0.01%
210	4.4 (4 methydaropyddaro)hienhanol	77-40-7	0.01%
219	4,4'-(1-methylpropylidene)bisphenol	77-40-7	0.0176
219	4,4'-(1-methylpropylidene)bisphenol <u>tris(2-methoxyethoxy)vinylsilane</u>	1067-53-4	0.01%
220	tris(2-methoxyethoxy)vinylsilane S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl)	1067-53-4	0.01%
220 221	tris(2-methoxyethoxy)vinylsilane S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	1067-53-4 255881-94-8 119-47-1	0.01% 0.01%
220 221	tris(2-methoxyethoxy)vinylsilane S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC) (3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	1067-53-4 255881-94-8	0.01% 0.01%
220 221	tris(2-methoxyethoxy)vinylsilane S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC) (3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,3E,4S)-1,7,7-trimethyl-3-(4- methylbenzylidene)bicyclo[2.2.1]heptan-2-one	1067-53-4 255881-94-8 119-47-1	0.01% 0.01%
220 221	tris(2-methoxyethoxy)vinylsilane S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC) (3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	1067-53-4 2555881-94-8 119-47-1 - 1782069-81-1	0.01% 0.01%
220 221 222	tris(2-methoxyethoxy)vinylsilane S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC) (3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (±)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (±)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (±)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (±)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (±)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (±)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	1067-53-4 255881-94-8 119-47-1 - 1782069-81-1 95342-41-9	0.01% 0.01% 0.01%
220 221 222	tris(2-methoxyethoxy)vinylsilane S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC) (3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one (1R,4S)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one	1067-53-4 255881-94-8 119-47-1 - 1782069-81-1 95342-41-9 852541-25-4	0.01% 0.01% 0.01%
220 221 222	tris(2-methoxyethoxy)vinylsilane S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC) (3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (±)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	1067-53-4 255881-94-8 119-47-1 - 1782069-81-1 95342-41-9 852541-25-4 36861-47-9	0.01% 0.01% 0.01%
220 221 222	tris(2-methoxyethoxy)vinylsilane S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC) (3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one (1R,4S)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one	1067-53-4 255881-94-8 119-47-1 - 1782069-81-1 95342-41-9 852541-25-4 36861-47-9 741687-98-9	0.01% 0.01% 0.01%
220 221 222	tris(2-methoxyethoxy)vinylsilane S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC) (3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (±)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	1067-53-4 255881-94-8 119-47-1 - 1782069-81-1 95342-41-9 852541-25-4 36861-47-9 741687-98-9 852541-30-1	0.01% 0.01% 0.01%
220 221 222 222 223	tris(2-methoxyethoxy)vinylsilane S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC) (3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (±)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,3S,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,3S,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,3S,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	1067-53-4 255881-94-8 119-47-1 - 1782069-81-1 95342-41-9 852541-25-4 36861-47-9 741687-98-9 852541-30-1 852541-21-0	0.01% 0.01% 0.01% 0.01%



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227	4,4'-sulphonyldiphenol	80-09-1	0.01%
228	Barium diboron tetraoxide	13701-59-2	0.01%
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	ļ	0.01%
230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.01%
231	Melamine	108-78-1	0.01%
232	Perfluoroheptanoic acid and its salts	-	0.01%
233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2- yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	0.01%





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- (*2) The substances are tested and calculated in terms of its respective elements and to the worst-case scenario. The report states the theoretical value of SVHC substances without consideration of the actual occurrence in the article.
- (*3) The substances are tested and calculated in terms of Cr (VI).
- (*4) The substance is tested and calculated in terms of Tributyl tin.
- (*5) The substances are confirmed and tested in terms of borate and the borate may come from the compounds other than SVHCs.
- (*6) The substances are UVCB (substance of unknown or variable composition, complex reaction products or biological materials), which are identified by its main constituents.
- (*7) Individual concentrations to the constituent of UVCB with an amount of < 0.01% were not considered by the calculation of the sum.
- (*8) The test results are based on microscopic and chemical evaluation.
- (*9) The substances are quantified in terms of Michler's ketone and Michler's base by LC-MS, as Michler's ketone or Michler's base was found exceeds 0.01%.
- (*10) The content oligomer is determined by Py-GC/MS.
- (*11) The content of diazene-1,2-dicarboxamide is analyzed in terms of its breakdown product.
- (*12) The substance is tested in terms of pentadecafluorooctanoate.
- (*13) The substance is tested and calculated in terms of Dioctyl tin.
- (*14) The substance is tested and calculated in terms of Monooctyl tin and Dioctyl tin.
- (*15) The substance is tested and calculated in terms of Dibutyl tin

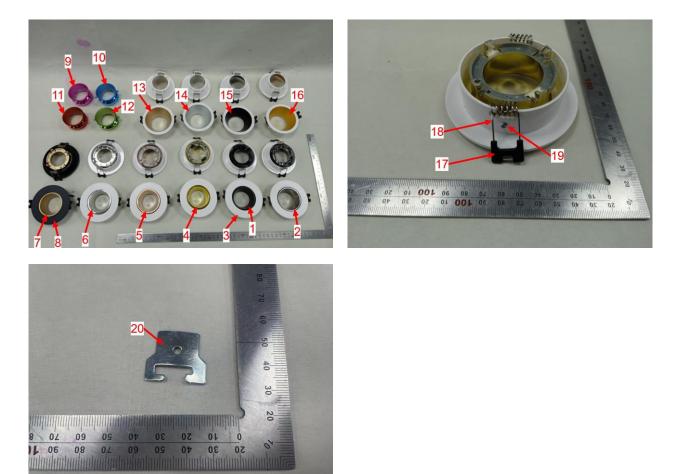
Products



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Sample Photos:



- END -

General Terms and Conditions of Business of TÜV Rheinland in Greater China

1.1 These General Terms and Conditions of Business of TÜV Rheinland in Greater China ("GTCB") is made betwe the client and one or more member entities of TÜV Rheinland in Greater China as applicable as the case may be ("TÜV Rheinland"). The Greater China hereof refers to Mainland China, Hong Kong and Taiwan. The client her

- a natural person capable to form legally binding contracts under the applicable laws who concludes the contract not for the purpose of a daily use:
- purpose of a daily use; cooperated or unixcoproprieted entity duly organized, validly existing and capable to form legally binding ts under the applicable law. lowing terms and conditions apply to agreed services including consultancy services, information, deliveries all services as well as ancillary services and other secondary obligations provided within the scope of 1.2 The foll
- rat performance. tandard terms and conditions of the client of any nature shall not apply and shall hereby be expressly exclud-tandard contrast and terms and conditions of the client shall form part of the contract even if TUV Rheinhard no explicitly object to them. context of an ongoing business relationship with the client, this GTCB shall also apply to future contracts with context of an ongoing business relationship with the client, this GTCB shall also apply to future contracts with the context of the client of the context of the client of 1.3
- 1.4 any oppect to turn, an ongoing business relationship with the client, this GTCB shall also apply to future contracts with out TÜV Rheinland having to refer to them separately in each individual case.

the client wi 2. Quotations

Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party.

Coming into effect and duration of contracts

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3.3

- The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TUV Rheinland by both parties. If no such separate service scope of TUV Rheinland exists, then the written confirmation of order by TUV Rheinland shall be description (e.g. defacing the correctness and functionality of grant, products, precesses, including the scope of the service description at the design, see the internal description product, precesses, translations, comparizations no listed in the service description, as well a the internal descent application of such areas to well, he particular, no responsibility in assumed for the design, serversely stude interdence and reserve and the order assumed part, product precess of particular description, and the scope of t 4.1 a matching contraction or memory up or a committee part, product, proceed or particular stated in the order. d services shall be performed in compliance with the regulations in force at the time the con 4.2
- entered ir TÜV Rhe 4.3
- red time. The time is a second of the second secon 4.4
- 4.5 4.6
- regulation, unnexs more questions are expressively covered by ine contract. In the case of impections own, TCU Nichimian dall and the propossible for the accuracy or checking of the safety programme or safety regulations on which the impections are based, unless otherwise expressive agreed in writing, mandatory leagl arguingtions and standard nor collical exposurements for the agreed service sope change after conclusion of the contract, with a written notice to the client, TCV Rheinland dall be entitled to additional remmention for research and the client of the services to be provided by TCV Rheinland under the current are ingred reducively by the client of the cli 47

Performance periods/date

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- 5.2
- 5.3 5.4
- Performance periods/usines The contrast-ully agreed periods/usines of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be binding if being confirmed as binding by TUV Berkinald on weights, the weight of the periods and an origin of the periods of the shall be client to all schemistical all explicitly documents to TUV Berkinaldon. A strategies are periods where the shall be client, to all extension of agreed periods/using of the periods of the periods of the periods of the shall be client, to all extension of agreed periods/using of the periods of the period of the periods of the peri
- 5.5 5.6
- contract. hereformance of TUV Rheinland is delayed due to unforesceable circumstances such as force majoure, strikes, basiness disruptions, governmend argulations, transport obstacks, etc., TUV Rheinland is entitled to postpone performance for a reasonable period of time which corresponds a least to the duration of the hindrance plus any time period which may be required to resume performance. the least is obligated to comp whi helg, alf discally prescribed and/or by the accreditor perscribed detaillines, it is the clients in obligate to comp whi helg, alf discally prescribed and/or by the accreditor perscribed detaillines, it is the client is obligated to prescribed adamts. TUV Rheinland, which enable the client to comply with the legs and or diffically prescribed adamts. TUV Rheinland areas no responsibility in this respect unless TU of propensity agreet in writing specifically stating that ensuing the deadlines is the connectual didgatorn of TUV Rheinland.

The client's obligation to cooperate

- 6.1 The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland.
- Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, standards, safety regulations and accident prevention instructions. And the client represents and warrants that: 6.2
- a) It has required statutory qualifications:
- The product, service or management system to be certified complies with applicable laws and regulations; and b)
- It doesn't have any illegal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts of People's Republic of China. c) If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to i) immediately terminate the contract/order without prior notice; and ii) withdraw the issued testing report/certificates if any.
- The client shall bear any additional cost incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information provided by or lack of proper cooperation from the client. Even where a fixed or maximum price is agreed, TÜV Rheinland shall be entitled to charge extra fees for such additional expense. 6.3

Prices

- 7.1 If the scope of performance is one liad down in writing when the order is planed, invocieng shall be based on certity animally incorrect H in profes is specified to use thing, invocing shall be made in accordance with the price list of TUV Reinfland valid at the time of performance. Unless otherwise agreed, work shall be invoiced according to the progress of the work. If the scenario of an order extends over more than one month and the value of the contrast or the agreed fixed price accorder 22 (2000) or equivalent values in local currency. TUP Minimial and yeard and payments to account or the scenario of the scenario or the scenario or the scenario of the scenario of the scenario of the scenario of the scenario or the scenario of the scenario or the scenario of the scena
- 7.2 7.3

April 2022

- All invoice amounts shall be due for payment within 30 days of the invoice date without deduction on receipt of the invoice. No discounts and rebates shall be granted. Payments shall be made to the bank account of TÜV Rheinland as indicated on the invoice, stating the invoice and 8.1 at within 30 days of the invoice date without deduction on receipt of the
- 8.2
- ments shall be made to the back account of TÜV Rheinland as indicated on the invoces, stamg one survess an-su numbers. cases of default of payment, TÜV Rheinland shall be entitled to chain default interest at the applicable short minor the start pay of the start acts. At the start inter, TÜV Rheinland reserves the right to chain further damages. The result of the start of the st 8.3 8.4
- 8.5 The pro
- 8.6
- 8.7 8.8
- invice. TUV Resistant shall be entitled to demand appropriate advance purposes. TUV Resistants shall be entitled to raise is if sets at the beginning of a mosth if overheads and our purchase costs. TUV Resistants dual be entitled to raise is if sets at the beginning of a most in each state of the softward of the size of changes in fees. If the contrast is not terminated, the changed fee shall be deemal to have been agreed on port be time of the experiment of the softward of the size of changes in fees. If the contrast is not terminated, the changed fee shall be deemal to have been agreed on port of the size of the softward of the softward of the size of changes in fees. If the contrast is not terminated, the changed fees shall be deemal to have been agreed on port of the size of t

8.9 Only legally established and undisputed claims may be offset against claims by TÜV Rheinland.
8.10 TÜV Rheinland shall have the right at all times to setoff any amount due or payable by the client, including but not limited to useful against any fees paid by the client under any contracts, agreement and/or orders/quotations reached with TÜV Rheinland.

Acceptance of work

9.3 9.4

- 9.1 9.2
- Acceptance of work As pay and the work seads redeved which is complete in itself may be presented by TUV Rheiniand for acceptance as an instances. The client shall be obligated to accept it immediates, this shall be deemed to have taken place two (2) works after completion and handover of the work, unless the client refuses acceptance within this period rating at least one individual besoft of correct to TUV Rheiniand. The client is not entitled to refute acceptance due to imaginficant trench of content by TUV Rheiniand. The client is not entitled to refute acceptance due to imaginficant trench of content by TUV Rheiniand. The client is not entitled to refute acceptance due to imaginficant trench of content by TUV Rheiniand. The client is not entitled to refute acceptance due to imaginficant trench of content by TUV Rheiniand. The client is not entitled to refute acceptance due to imaginficant trench of content by TUV Rheiniand. The client is place. During the Follow-Audit stage, if the client was unable to made use of the time windows provided for within the scope of a certification procedure for admiting performance by TUV Rheiniand and the completion of the work shall take in place. During the Follow-Audit stage, if the client ancels to represent the right to prove that the TUV Rheiniand has increated no damage whatsoever or only a considerably lower damage than the above hump state. 9.5
- sum. south as the client has undertaken in the contract to accept services, TÜV Rheinland shall also be entitled to charge lump-sum damages in the amount of 10% of the order amount as compensation for expenses if the service is not called within one year after the order has been placed. The client reserves the right to prove that the TÜV Rheinland has incurred to damage whatsover or only a considerably lower damage than the above mentioned lum 9.6

Confidentiality 10.1

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Copyrights and rights of use, publications

- Capacity capacit

Liability of TÜV Rheinland

- Liability of TÜV Rheinland respective of the light backs in the failed sections permitted by applicable law, in the event of a breach of contrast-obligations to test, the liability of TÜV Rheinland for all damages, howes, and reimbarement of expresses caused by TÜV Rheinland, total legal respectatives and one employees shall be limited tot (i) the lines of a contrast of manually retoring services, large and manifes (iii) in the case of a contrast of manually factoring law endowed and the limited tot (i) the leven of a contrast of manually retoring services, law endowed and the limited tot (ii) the leven of a contrast of manually retoring services, law endowed and the low provide statistical section of the limited law of the demagnes of lows have we correct. Note within the leven of the leven that the total and scurmation of liability accounting to the foregoing provisions exceeds 2.5 Million flows and baland the demagnes of lows have been shall be early or equivalent into a contrast of law endowed and the leven of the leven of the law of law of the demagnes of lows have law of law or have have the law of law of lows control by malker, the demagnes of low law of law o
- applies, une treated constraints protections stangingly, mures any vis the extramateries treatment in a start is a applies. The Whendhand all has the labels for the second methan actualisels by the extra support TUV Resimitad and the brinks for the rest of the second methan actualise by the extra second methan actualise is regarded viscories agent of TUV Resimitad. ITUV Resimality and the Rest of the second methan actualise is a start of the second methan actualise the second methan actualise is a bind particle action of the second methan actualise is a start of the second methan actualise the other second methan actualized methan actualise is a start of the second methan actualise so derives constraints apprend to writing TUV Residual and and the bind has the corract to the element. The limitation periods for claims for damages shall be based on stratetory provisions. Un
- 12.5 12.6 12.7 Export control
- 13. 13.1
 - en passing on the services provided by TÜV Rheinland or parts thereof to third parties in Greater China or other regions, the client must comply with the respectively applicable regulations of national and international export control law.
 - control law. control law. experformance of a contract with the client is subject to the proviso that there are no obstacles to performance due to national or international foreign trade legislations or embrayos and/or sanctions. In the event of a violation, TÜV Rheinland shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incured thereof by TÜV Rheinland.

Bate protection notice The client understands and agrees that TÜV Rheinland processes personal data (including but not limited to the similar to personal information) of the client and its related parties (including but not limited to the similar to personal information) of the client and its related parties (including but not limited to the similar to personal information) of the client and the TUV Rheinland to occurs, units or process the the data in accordance with the relevant legal basis. TUV Rheinland will use and process the data in accordance with the relevant legal basis. TuV Rheinland will use and process the data in accordance with the relevant legal basis. TuV Rheinland will use and process the data in accordance with the relevant legal basis. TuV Rheinland will use and process the data in accordance with the relevant legal basis. TuV Rheinland will use adprocess associated, the client ablo continues that it has obtained the prior consent of the data subject. TUV privacy and personal data security related laws and regulations in China and the local country. TUV Pheinland will the measures to avoid any leakage, analy, may basis, and the relation of the data subject. The personal data security related laws and regulations in China and the local country. TUV privacy and personal data. The personal data will be deleted immediately as soon as a corresponding access of personal data. The personal data will be deleted immediately as soon as a corresponding their consent at any time with field of the following rights; right of information, right of deletion, right of deletion and the incoment at any time with field of the following rights; right of information, right of deletion, right of delet

- 15.2
- Retention of test material and documentation
 The test samples obtained by the citest of TO W Bachalad for testing will be scapped following testing or will be
 testing to the citest at the citest at the citest capacity of the test sample in which are placed in storage on
 the basis of catalyses are stored at the quotation.
 Catages apply if the test samples are stored at the quotation.
 If references samples or documentations are given to the client to be placed in storage at the disclosed to the client in the quotation.
 If references samples or documentations are given to the client to be placed in storage at their premises, the reference
 samples or documentations are available to TU W Benindad up the research and/or
 the client, in response to such a request, is incapable of making available the reference
 samples or documentations and the voltation.
 The retention period for the documentation shall be to it. W Monindad MID
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 The costs of the handover and dopatch of the test samples for storage on the clear's premises are borne by the client.
 The costs of the handover and dopatch of the test samples for storage on the clear's premises are borne by the client.
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- Termination of the contract Newsituating Guard as 3 of the GTCR. TUV Riotizated and the client are entitled to terminate the contract in its entity or, in the case of everies combined in one contract, each of the combined parts of the contract individually and independently of the continuation of the remaining services with its (6) month mode to the end of the contractually agreed term. The nonice period shall be shortened to us (6) weeks in case TUV Riesland a five good cases. TUV Reiniand may constrained systems and the contract which includes be not limited to the following: a the client data was an experiment of the start of the client in the company which are after cardification or sign of such shanges: b client data end constrained the start of the start of the client in the company which are after cardification or sign of such shanges: (a) an elevation account constrained height in properties of least three times): (b) and even constrained the start constrained on the terms times): (b) and build deterioration of the financial circumstances of the client occurs and as a result the popure client of TUV Reinitiand the the contract are constrained wheight and TUV Reinitiand and TUV Reinitiand and the company end that (b) and heat the contract are constrained wheight and TUV Reinitiand and TUV Reinitiand the terminet client of (c) in the vers of any serioran inserpretion time, the by iterational finand or growsby negligent behavior of the managers, employees or agains of the client;

- w.comme ure contractait relationship. In the verse of any serioon misseprementation, be it by intentional final or grossly negligant behavior of the managers, employees or agents of the clear; of 10 UV Reinland, for erasons boyceal in contral, is temporarily or finally not able or entitled to continue or finalize the performance of the service, e.g. in case of force majore, government interference, sanctions, loss of the event of meminism with writem norther by TUV Reinland or good case; TUV Reinland valle be entitled to a lump-sum claim for damages against the client if the conditions of a claim for damage exist. In this case, the client shall over Stor the remneration to be paid and lite damage in individual case. Never damage, TUV Reinland reserves the right to prove case disorderably lighted mature in a lump-sum compensation. The client networks the right to prove that there is no damage or a considerably lower damage. Verification with severe the right to prove case disorderably lighted mature in individual case. Never damage, TUV Reinland reserves rectificate therefore has to be withdrawn (for example during the performance of nonintricitation procedure and the contributed the use withdrawn (for example during the performance of monitoring andito). Clause 16.3 applies accordingly. 16.4 ΤŪ

Force Majeure "Force Majeure" r

- Varex Majeure "Torce Majeure" means the occurrence of an event or circumstance that prevents or impedes a Party from performing one or more of its contractual obligations under the contract, if and to the extent that the Party proces (b) that such impediment is beyout its resumble contral, and (b) that i could not reasonally have been foreseen at the time of the conclusion of the contract, and (c) that the effects of the impediment could not reasonally have been for the conclusion of the contract, and (c) that the effects of the impediment could not reasonally have been valided or overceme by the affected Party. In the absence of proof to the contract, the following events affecting a Party shall be presumed to fulfill conditions of and (b) under paragraph for d that Cancer (b) were the share the other of a reasonal trace the second of the conclusion of the termination of the second of the second
- energy: the provident finite of the source state to be enclosed on the source state of the provident state of the

- Hardship The Parties are bond to perform their contractual drises even if events have nedered performance more onerons than browthen-binding pengraph if which contractions are bond on the performance of its contractual drises where a Party proves that: (a) the continued performance of its contractual data has become excessively cnerous date to an event beyond its reasonable control which is conduct reasonably have been expected to have taken in account at the time of the conclusion of the contract, and that (b) its conduct one there verified for reasonable the event expected to have taken in the account at the time of the contractual terms should within a (b) its conduct one there verified for events the event or its consequence, the Parties are bound within a (b) its conduct one there verified in the terms in the terms of the contractual terms should voltant as the event the consequences of the event. Where Clause 122 parties, that where the Parties have been unable to agree alternative contractual terms are provided in that paragraph, the Party invoking this Clause is entited to terminate the contract, but cannot respect adaptation by the judge or arbitrary without the agreement of the one Party. 18.2

Partial invalidity, written form, place of jurisdiction and dispute resolution

- 19.1 19.2
- Partial meaning, written torm, packe or jurisdiction and uspace resolution All meaninests and appelements must be in writing in order to be effective. This sho applies to amendments and supplements to this classe [17]. Should one or several of the provision under the contract and/or these terms and conditions be or become ineffective, the contracting parties shall replace the invalid provision with a legally valid provision that cornes closes to the contract of the invalid provision in legal and commerciate terms. Unless otherwise simplated in the contract, and be terms and conditions shall be chosen following it needs as below: if TUV Rheinland in agestion is legally registered and existing in the People's Republic of China, the contracting protein-hereby agest that the contract and the terms and conditions allow governed by the laws of the People's reprise hereby agest the the contract and the terms and conditions that be governed by the laws of the People's reprise hereby agest the contract and the set must and conditions that be governed by the laws of the People's reprise hereby agest the contract and the set must and conditions that be governed by the laws of the People's reprise hereby agest the contract and the set must and conditions that be governed by the laws of the People's reprise hereby agest the contract and the set must and conditions that be governed by the laws of the People's reprise hereby agest the contract and the set must and conditions that be governed by the laws of the People's reprise hereby agest the contract and the set must and conditions that be governed by the laws of the People's reprise hereby agest the contract and the set must and conditions that be governed by the laws of the People's reprise hereby agest the contract and the set must and conditions that be governed by the laws of the People's reprise hereby agest the contract and the set must and conditions that be governed by the laws of the People's reprise thereby agest the people of the provision that the people of the ... LOW normation in question is legally registered and existing in the People's Republic of China, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of the People's Republic of China, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of the People's and the transformer of the people of a)

Any dispute in connection with the contract, if no settlement on sugrement in respect of the extension of the infrardy through program granitations. The contract, if no settlement on sugrement in respect of the extension of the negativation period. The meaded within the normalis of the ating of the dispute, the dispute all be submitted in the case of TUV Rheimland in questions being legally registered and existing in the Poople's Republic of Cham, no has historementative and the submitted commission (CHT) AC to be submitted for the submitted of the submitted of the submitted commission of the submitted of the submitted Beinging Shanghai. Showhere of Changing as appropriately chosen by the chaming parts in Beinging Shanghai. Showhere of Changing as appropriately chosen by the chaming parts in the case of TUV Relimination in questions being legally registered and existing in Taiwan. On Chanse Atherization Association, Taipei to be arbitrated in accordance with its then current Rales of Athiration. The arbitration shall

The decision of the relevant arbitration tribunal shall be final and binding on both parties. The arbitration fee shall be borne by the loging party