



# TEST REPORT

REPORT No.: **DTIBW20221821R**

Date: 2022-09-27

Page 1 of 22

Applicant Company Name: **GEMBIRD ELECTRONICS (NINGBO) LIMITED**

Applicant Company Address: **Dagutang Road, Simen Town, YuYao City, Zhejiang, China**

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Name : Surge protectors  
Model No. : SPG6, SPG5, SPG4, SPG3, SPM5, SPM3, SPG6-PRO, SPG5-PRO, SPG3-PRO  
Trademark : gembird  
Manufacturer : GEMBIRD ELECTRONICS (NINGBO) LIMITED  
Manufacturer Address : Dagutang Road, Simen Town, YuYao City, Zhejiang, China  
Sample Receiving Date : September 15, 2022; September 26, 2022  
Testing Period : From September 15, 2022 to September 27, 2022  
Results : Please refer to next page(s).

## Summary of Test Results:

### TEST REQUEST

### CONCLUSION

Two hundred and twenty-four(224) substances in the Candidate List of Substances of  
A Very High Concern (SVHC) for authorization published by European Chemicals Agency  
(ECHA) on - **(EC) No 1907/2006 concerning the REACH**

**Pass**  
(As remark)

Remark : According to the specified scope and analytical technique, concentration of each 224 SVHC is <0.1% in the submitted sample(s)

Shenzhen Deesev Testing International Corp

Approved by: Tommy Jiang  
lab manager

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# TEST REPORT

REPORT No.:DTIBW20221821R

Date:2022-09-27

Page 2 of 22

## Results:

### Test Portions:

- (1) =Mixture of Metal Parts
- (2) =Mixture of Nonmetal Parts

**A、Two hundred and twenty-four(224) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on - (EC) No 1907/2006 concerning the REACH**

Test method: With reference to in- house method,DTI-SVHC-001, DTI-SVHC-002,DTI- SVHC-003 DTI-SVHC-004, DTI-SVHC-005, Analysis is performed by ICP-OES, UV-VIS, GC/MS, HPLC/MS and IC

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# TEST REPORT

REPORT No.: **DTIBW20221821R**

Date: 2022-09-27

Page 3 of 22

No.	Items	CAS No.	EC No.	RL(%)	Results(%)		
					(1)	(2)	In product
1	Anthracene (ANT)	120-12-7	204-371-1	0.005	N.D.	N.D.	N.D.
2	4,4'-Diaminodiphenylmethane	101-77-9	202-974-4	0.005	N.D.	N.D.	N.D.
3	Dibutyl Phthalate (DBP)	84-74-2	201-557-4	0.005	N.D.	N.D.	N.D.
4	Cobalt Dichloride (CoCl <sub>2</sub> )*	7646-79-9	231-589-4	0.01	N.D.	N.D.	N.D.
5	Diarsenic Pentaoxide (As <sub>2</sub> O <sub>5</sub> )*	1303-28-2	215-116-9	0.01	N.D.	N.D.	N.D.
6	Diarsenic Trioxide (As <sub>2</sub> O <sub>3</sub> )*	1327-53-3	215-481-4	0.01	N.D.	N.D.	N.D.
7	Sodium Dichromate, Dihydrate*	7789-12-0, 10588-01-9	234-190-3	0.01	N.D.	N.D.	N.D.
8	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	0.005	N.D.	N.D.	N.D.
9	Bis-(2-ethyl(hexyl)Phthalate (DEHP)	117-81-7	204-211-0	0.005	N.D.	N.D.#	N.D.
10	Hexabromocyclododecane (HBCDD)	25637-99-4 & 3194-55-6	247-148-4 221-695-9	0.005	N.D.	N.D.	N.D.
11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5	0.01	N.D.	N.D.	N.D.
12	Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0	0.005	N.D.	N.D.	N.D.
13	Lead Hydrogen Arsenate*	7784-40-9	232-064-2	0.01	N.D.	N.D.	N.D.
14	Benzyl Butyl Phthalate (BBP)	85-68-7	201-622-7	0.05	N.D.	N.D.	N.D.
15	Triethyl Arsenate*	15606-95-8	427-700-2	0.01	N.D.	N.D.	N.D.
16	① Anthracene oil	90640-80-5	292-602-7	0.05	N.D.	N.D.	N.D.
17	① Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5	0.05	N.D.	N.D.	N.D.
18	① Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	0.05	N.D.	N.D.	N.D.
19	① Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.05	N.D.	N.D.	N.D.

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REPORT No.:DTIBW20221821R

Date:2022-09-27

Page 4 of 22

No.	Items	CAS No.	EC No.	RL(%)	Results(%)		
					(1)	(2)	In product
20	<sup>①</sup> Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.05	N.D.	N.D.	N.D.
21	Diisobutyl phthalate	84-69-5	201-553-2	0.005	N.D.	N.D.	N.D.
22	2,4-Dinitrotoluene	121-14-2	204-450-0	0.01	N.D.	N.D.	N.D.
23	<sup>①</sup> Coal tar pitch, high temperature***	65996-93-2	266-028-2	0.05	N.D.	N.D.	N.D.
24	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	0.01	N.D.	N.D.	N.D.
25	<sup>②</sup> Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7	0.05	N.D.	N.D.	N.D.
26	<sup>②</sup> Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8	235-759-9	0.05	N.D.	N.D.	N.D.
27	<sup>②</sup> Lead chromate: chrome yellow	7758-97-6	231-846-0	0.05	N.D.	N.D.	N.D.
28	Acrylamide	79-06-1	201-173-7	0.01	N.D.	N.D.	N.D.
29	Trichloroethylene	79-01-6	201-167-4	0.005	N.D.	N.D.	N.D.
30	<sup>③</sup> Boric acid *	10043-35-3; 11113-50-1	233-139-2; 234-343-4	0.01	N.D.	N.D.	N.D.
31	<sup>③</sup> Disodium tetraborate, anhydrous	1330-43-4; 12179-04-3; 1303-96-4	215-540-4	0.01	N.D.	N.D.	N.D.
32	<sup>③</sup> Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3	0.01	N.D.	N.D.	N.D.
33	Sodium chromate *	7775-11-3	231-889-5	0.01	N.D.	N.D.	N.D.
34	Potassium chromate*	7789-00-6	232-140-5	0.01	N.D.	N.D.	N.D.
35	Ammonium dichromate*	7789-09-5	232-143-1	0.01	N.D.	N.D.	N.D.
36	Potassium dichromate	7778-50-9	231-906-6	0.01	N.D.	N.D.	N.D.
37	Cobalt(II) sulphate *	10124-43-3	233-334-2	0.01	N.D.	N.D.	N.D.
38	Cobalt(II) dinitrate*	10141-05-6	233-402-1	0.01	N.D.	N.D.	N.D.

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Date: 2022-09-27

Page 5 of 22

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39	Cobalt(II) carbonate*	513-79-1	208-169-4	0.01	N.D.	N.D.	N.D.
40	Cobalt(II) diacetate*	71-48-7	200-755-8	0.01	N.D.	N.D.	N.D.
41	2-Methoxyethanol	109-86-4	203-713-7	0.005	N.D.	N.D.	N.D.
42	2-Ethoxyethanol	110-80-5	203-804-1	0.005	N.D.	N.D.	N.D.
43	Chromium trioxide*	1333-82-0	215-607-8	0.01	N.D.	N.D.	N.D.
44	Chromic acid* Dichromic acid*	7738-94-5 13530-68-2	231-801-5 236-881-5	0.01	N.D.	N.D.	N.D.
45	1,2,3-trichloropropane	96-18-4	202-486-1	0.01	N.D.	N.D.	N.D.
46	Strontium chromate*	7789-06-2	232-142-6	0.01	N.D.	N.D.	N.D.
47	2-ethoxyethyl acetate	111-15-9	203-839-2	0.01	N.D.	N.D.	N.D.
48	<sup>①</sup> 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	0.01	N.D.	N.D.	N.D.
49	Hydrazine	7803-57-8 302-01-2	206-114-9	0.01	N.D.	N.D.	N.D.
50	1-methyl-2-pyrrolidone	872-50-4	212-828-1	0.01	N.D.	N.D.	N.D.
51	<sup>①</sup> 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	0.01	N.D.	N.D.	N.D.
52	Dichromium tris(chromate)*	24613-89-6	246-356-2	0.01	N.D.	N.D.	N.D.
53	Potassium hydroxyoctaoxodizinc catedi-chromate *	11103-86-9	234-329-8	0.01	N.D.	N.D.	N.D.
54	Pentazinc chromate octahydroxide	49663-84-5	256-418-0	0.01	N.D.	N.D.	N.D.
55	<sup>②</sup> Aluminosilicate Refractory Ceramic Fibres (AI-RCF)**	-	-	0.05	N.D.	N.D.	N.D.

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Date: 2022-09-27

Page 6 of 22

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					(1)	(2)	In product
56	<sup>②</sup> Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)**	-	-	0.05	N.D.	N.D.	N.D.
57	<sup>①</sup> Formaldehyde, oligomeric reaction products with aniline (technical MDA) <sup>△</sup>	25214-70-4	500-036-1	0.01	N.D.	N.D.	N.D.
58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	0.005	N.D.	N.D.	N.D.
59	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	0.005	N.D.	N.D.	N.D.
60	4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	0.005	N.D.	N.D.	N.D.
61	1,2-Dichloroethane	107-06-2	203-458-1	0.005	N.D.	N.D.	N.D.
62	Bis (2-methoxyethyl) ether	111-96-6	203-924-4	0.005	N.D.	N.D.	N.D.
63	Arsenic acid *	7778-39-4	231-901-9	0.01	N.D.	N.D.	N.D.
64	Calcium arsenate*	7778-44-1	231-904-5	0.01	N.D.	N.D.	N.D.
65	Trilead diarsenate*	3687-31-8	222-979-5	0.01	N.D.	N.D.	N.D.
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.005	N.D.	N.D.	N.D.
67	2,2'-dichloro-4,4'-methylenedianiline(MOCA)	101-14-4	202-918-9	0.005	N.D.	N.D.	N.D.
68	Phenolphthalein	77-09-8	201-004-7	0.005	N.D.	N.D.	N.D.
69	Lead azide Lead diazide*	13424-46-9	236-542-1	0.01	N.D.	N.D.	N.D.
70	Lead styphnate*	15245-44-0	239-290-0	0.01	N.D.	N.D.	N.D.
71	Lead dipicrate*	6477-64-1	229-335-2	0.01	N.D.	N.D.	N.D.
72	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.01	N.D.	N.D.	N.D.
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.01	N.D.	N.D.	N.D.

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Date:2022-09-27

Page 7 of 22

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74	③ Diboron trioxide**	1303-86-2	215-125-8	0.01	N.D.	N.D.	N.D.
75	Formamide	75-12-7	200-842-0	0.01	N.D.	N.D.	N.D.
76	Lead(II) bis(methanesulfonate) **	17570-76-2	401-750-5	0.01	N.D.	N.D.	N.D.
77	(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione )	2451-62-9	219-514-3	0.01	N.D.	N.D.	N.D.
78	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	423-400-0	0.01	N.D.	N.D.	N.D.
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	202-027-5	0.01	N.D.	N.D.	N.D.
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	0.01	N.D.	N.D.	N.D.
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) ***	548-62-9	208-953-6	0.05	N.D.	N.D.	N.D.
82	[4-[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) ***	2580-56-5	219-943-6	0.05	N.D.	N.D.	N.D.
83	α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)***	6786-83-0	229-851-8	0.05	N.D.	N.D.	N.D.
84	4,4'-bis(dimethylamino)-4''-(methylamino) trityl alcohol	561-41-1	209-218-2	0.05	N.D.	N.D.	N.D.
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	0.05	N.D.	N.D.	N.D.
86	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	0.05	N.D.	N.D.	N.D.

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REPORT No.: **DTIBW20221821R**

Date: 2022-09-27

Page 8 of 22

No.	Items	CAS No.	EC No.	RL(%)	Results(%)		
					(1)	(2)	In product
87	Tricosafuorododecanoic acid	307-55-1	206-203-2	0.05	N.D.	N.D.	N.D.
88	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	0.05	N.D.	N.D.	N.D.
89	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	0.05	N.D.	N.D.	N.D.
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues	-	-	0.05	N.D.	N.D.	N.D.
91	④ 4-Nonylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	-	-	0.05	N.D.	N.D.	N.D.
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	0.05	N.D.	N.D.	N.D.
93	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7 13149-00-3 14166-21-3	201-604-9 236-086-3 238-009-9	0.05	N.D.	N.D.	N.D.
94	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	0.05	N.D.	N.D.	N.D.

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# TEST REPORT

REPORT No.: **DTIBW20221821R**

Date: 2022-09-27

Page 9 of 22

No.	Items	CAS No.	EC No.	RL(%)	Results(%)		
					(1)	(2)	In product
95	Methoxy acetic acid	625-45-6	210-894-6	0.05	N.D.	N.D.	N.D.
96	<sup>①</sup> 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	0.01	N.D.	N.D.	N.D.
97	Diisopentylphthalate (DIPP)	605-50-5	210-088-4	0.005	N.D.	N.D.	N.D.
98	N-pentyl-isopentylphthalate	776297-69-9	-	0.005	N.D.	N.D.	N.D.
99	1,2-Diethoxyethane	629-14-1	211-076-1	0.05	N.D.	N.D.	N.D.
100	N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5	0.05	N.D.	N.D.	N.D.
101	Dibutyltin dichloride (DBT)	683-18-1	211-670-0	0.05	N.D.	N.D.	N.D.
102	Acetic acid, lead salt, basic	51404-69-4	257-175-3	0.01	N.D.	N.D.	N.D.
103	Basic lead carbonate (trilead bis(carbonate)dihydroxide)	1319-46-6	215-290-6	0.01	N.D.	N.D.	N.D.
104	Lead oxide sulfate (basic lead sulfate)	12036-76-9	234-853-7	0.01	N.D.	N.D.	N.D.
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)	69011-06-9	273-688-5	0.01	N.D.	N.D.	N.D.
106	Dioxobis(stearato)trilead	12578-12-0	235-702-8	0.01	N.D.	N.D.	N.D.
107	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7	0.01	N.D.	N.D.	N.D.
108	Lead bis(tetrafluoroborate)	13814-96-5	237-486-0	0.01	N.D.	N.D.	N.D.
109	Lead cyanamide	20837-86-9	244-073-9	0.01	N.D.	N.D.	N.D.
110	Lead dinitrate	10099-74-8	233-245-9	0.01	N.D.	N.D.	N.D.
111	Lead oxide (lead monoxide)	1317-36-8	215-267-0	0.01	N.D.	N.D.	N.D.
112	Lead tetroxide (orange lead)	1314-41-6	215-235-6	0.01	N.D.	N.D.	N.D.
113	Lead titanium trioxide	12060-00-3	235-038-9	0.01	N.D.	N.D.	N.D.
114	Lead Titanium Zirconium Oxide	12626-81-2	235-727-4	0.01	N.D.	N.D.	N.D.

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# TEST REPORT

REPORT No.: **DTIBW20221821R**

Date: 2022-09-27

Page 10 of 22

No.	Items	CAS No.	EC No.	RL(%)	Results(%)		
					(1)	(2)	In product
115	Pentalead tetraoxide sulphate	12065-90-6	235-067-7	0.01	N.D.	N.D.	N.D.
116	Pyrochlore, antimony lead yellow C.I.***	8012-00-8	232-382-1	0.01	N.D.	N.D.	N.D.
117	Silicic acid, barium salt, lead-doped	68784-75-8	272-271-5	0.01	N.D.	N.D.	N.D.
118	Silicic acid, lead salt	11120-22-2	234-363-3	0.01	N.D.	N.D.	N.D.
119	Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1	0.01	N.D.	N.D.	N.D.
120	Tetraethyllead	78-00-2	201-075-4	0.01	N.D.	N.D.	N.D.
121	Tetralead trioxide sulphate	12202-17-4	235-380-9	0.01	N.D.	N.D.	N.D.
122	Trilead dioxide phosphonate	12141-20-7	235-252-2	0.01	N.D.	N.D.	N.D.
123	Furan	110-00-9	203-727-3	0.05	N.D.	N.D.	N.D.
124	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	0.05	N.D.	N.D.	N.D.
125	Diethyl sulphate	64-67-5	200-589-6	0.05	N.D.	N.D.	N.D.
126	Dimethyl sulphate	77-78-1	201-058-1	0.05	N.D.	N.D.	N.D.
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine3-	143860-04-2	421-150-7	0.05	N.D.	N.D.	N.D.
128	Dinoseb	88-85-7	201-861-7	0.05	N.D.	N.D.	N.D.
129	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.05	N.D.	N.D.	N.D.
130	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.05	N.D.	N.D.	N.D.
131	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6	0.05	N.D.	N.D.	N.D.
132	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1	0.05	N.D.	N.D.	N.D.
133	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	0.05	N.D.	N.D.	N.D.

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# TEST REPORT

REPORT No.: **DTIBW20221821R**

Date: 2022-09-27

Page 11 of 22

No.	Items	CAS No.	EC No.	RL(%)	Results(%)		
					(1)	(2)	In product
134	Biphenyl-4-ylamine	92-67-1	202-177-1	0.05	N.D.	N.D.	N.D.
135	o-aminoazotoluene	97-56-3	202-591-2	0.05	N.D.	N.D.	N.D.
136	o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0	0.05	N.D.	N.D.	N.D.
137	N-methylacetamide	79-16-3	201-182-6	0.05	N.D.	N.D.	N.D.
138	1-bromopropane; n-propyl bromide	106-94-5	203-445-0	0.05	N.D.	N.D.	N.D.
139	Cadmium	7440-43-9	231-152-8	0.01	N.D.	N.D.	N.D.
140	Cadmium oxide	1306-19-0	215-146-2	0.01	N.D.	N.D.	N.D.
141	Ammonium pentadecafluorooctanoate	3825-26-1	223-320-4	0.01	N.D.	N.D.	N.D.
142	Pentadecafluorooctanoic acid	335-67-1	206-397-9	0.01	N.D.	N.D.	N.D.
143	Dipentyl phthalate	131-18-0	205-017-9	0.005	N.D.	N.D.	N.D.
144	① 4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB-and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof ]	-	-	0.05	N.D.	N.D.	N.D.
145	Cadmium sulphide	1306-23-6	215-147-8	0.01	N.D.	N.D.	N.D.
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)(C.I. Direct Red 28)***	573-58-0	209-358-4	0.01	N.D.	N.D.	N.D.

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# TEST REPORT

REPORT No.: **DTIBW20221821R**

Date: 2022-09-27

Page 12 of 22

No.	Items	CAS No.	EC No.	RL(%)	Results(%)		
					(1)	(2)	In product
147	38Disodium4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)***	1937-37-7	217-710-3	0.01	N.D.	N.D.	N.D.
148	Diethyl phthalate(DHXP)	84-75-3	201-559-5	0.005	N.D.	N.D.	N.D.
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	0.01	N.D.	N.D.	N.D.
150	Lead di(acetate)	301-04-2	206-104-4	0.01	N.D.	N.D.	N.D.
151	<sup>①</sup> Triethyl phosphate	25155-23-1	246-677-8	0.01	N.D.	N.D.	N.D.
152	cadmium dichloride	10108-64-2	233-296-7	0.01	N.D.	N.D.	N.D.
153	<sup>①</sup> 1,2-benzenedicarboxylic acid diethyl ester branched and linear	68515-50-4	271-093-5	0.01	N.D.	N.D.	N.D.
154	<sup>③</sup> Sodium peroxometaborate	7632-04-4	231-556-4	0.01	N.D.	N.D.	N.D.
155	<sup>③</sup> Sodium perborate; perboric acid, sodium salt	-	239-172-9; 234-390-0	0.01	N.D.	N.D.	N.D.
156	Cadmium fluoride	7790-79-6	232-222-0	0.01	N.D.	N.D.	N.D.
157	Cadmium sulphate	10124-36-4; 31119-53-6	233-331-6	0.01	N.D.	N.D.	N.D.
158	UV-320	3846-71-7	223-346-6	0.01	N.D.	N.D.	N.D.
159	UV-328	25973-55-1	247-384-8	0.01	N.D.	N.D.	N.D.
160	2-ethylhexyl10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate(DOTE)	15571-58-1	239-622-4	0.05	N.D.	N.D.	N.D.

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# TEST REPORT

REPORT No.:DTIBW20221821R

Date:2022-09-27

Page 13 of 22

No.	Items	CAS No.	EC No.	RL(%)	Results(%)		
					(1)	(2)	In product
161	① Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	-	0.05	N.D.	N.D.	N.D.
162	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters; Di-n-hexyl phthalate (DnHP)	68515-51-5; 68648-93-1;	271-094-0; 272-013-1;	0.05	N.D.	N.D.	N.D.
163	Karanal(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])	-	-	0.05	N.D.	N.D.	N.D.
164	1,3-propanesultone	1120-71-4	214-317-9	0.01	N.D.	N.D.	N.D.
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol(uv-327)	3864-99-1	223-383-8	0.01	N.D.	N.D.	N.D.
166	2-2(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	0.01	N.D.	N.D.	N.D.
167	Nitrobenzene	98-95-3	202-716-0	0.01	N.D.	N.D.	N.D.
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	0.01	N.D.	N.D.	N.D.
169	Benzo[def]chrysene(Benzo[a]pyrene)	50-32-8	200-028-5	0.01	N.D.	N.D.	N.D.

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# TEST REPORT

REPORT No.:DTIBW20221821R

Date:2022-09-27

Page 14 of 22

No.	Items	CAS No.	EC No.	RL(%)	Results(%)		
					(1)	(2)	In product
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	201-245-8	0.01	N.D.	N.D.	N.D.
171	nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	-- 206-400-3 221-470-5	0.01	N.D.	N.D.	N.D.
172	4-tert-pentylphenol (PTAP)	80-46-6	201-280-9	0.01	N.D.	N.D.	N.D.
173	4-heptylphenol, branched and linear (4-HPbl)	-	-	0.01	N.D.	N.D.	N.D.
174	Perfluorohexane-1-sulphonic acid and its salts(PFHxS)	-	-	0.01	N.D.	N.D.	N.D.
175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	-	0.01	N.D.	N.D.	N.D.
176	Benz[a]anthracene	56-55-3	200-280-6	0.01	N.D.	N.D.	N.D.
177	Cadmium nitrate	10325-94-7	233-710-6	0.01	N.D.	N.D.	N.D.
178	Cadmium carbonate	513-78-0	208-168-9	0.01	N.D.	N.D.	N.D.
179	Cadmium hydroxide	21041-95-2	244-168-5	0.01	N.D.	N.D.	N.D.
180	Chrysene	218-01-9	205-923-4	0.01	N.D.	N.D.	N.D.
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	N.D.	N.D.	N.D.
182	Benzene -1,2,4- tricarboxylic acid 1,2- anhydride (TMA)	552-30-7	209-008-0	0.01	N.D.	N.D.	N.D.

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REPORT No.:DTIBW20221821R

Date:2022-09-27

Page 15 of 22

No.	Items	CAS No.	EC No.	RL(%)	Results(%)		
					(1)	(2)	In product
183	Dicyclohexyl phthalate	84-61-7	201-545-9	0.01	N.D.	N.D.	N.D.
184	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	0.01	N.D.	N.D.	N.D.
185	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.01	N.D.	N.D.	N.D.
186	Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	0.01	N.D.	N.D.	N.D.
187	Lead	7439-92-1	231-100-4	0.01	N.D.	N.D.	N.D.
188	Disodium octaborate	12008-41-2	234-541-0	0.01	N.D.	N.D.	N.D.
189	Benzo[ghi]perylene	191-24-2	205-883-8	0.01	N.D.	N.D.	N.D.
190	Terphenyl hydrogenated	61788-32-7	262-967-7	0.01	N.D.	N.D.	N.D.
191	Ethylenediamine	107-15-3	203-468-6	0.01	N.D.	N.D.	N.D.
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6	0.01	N.D.	N.D.	N.D.
193	Benzo[k]fluoranthene	205-916-6	207-08-9	0.01	N.D.	N.D.	N.D.
194	Fluoranthene	205-912-4	206-44-0	0.01	N.D.	N.D.	N.D.
195	Phenanthrene	201-581-5	85-01-8	0.01	N.D.	N.D.	N.D.
196	Pyrene	204-927-3	129-00-0	0.01	N.D.	N.D.	N.D.
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	239-139-9	0.01	N.D.	N.D.	N.D.
198	4-tert-butylphenol(PTBP)	98-54-4	202-679-0	0.01	N.D.	N.D.	N.D.

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REPORT No.: **DTIBW20221821R**

Date: 2022-09-27

Page 16 of 22

No.	Items	CAS No.	EC No.	RL(%)	Results(%)		
					(1)	(2)	In product
199	HFPO-DA 2,3,3,3-tetrafluoro-2(heptafluoropropoxy)propionic acid, its salts and its acyl halides(covering any of their individual isomers and combinations thereof	-	-	0.01	N.D.	N.D.	N.D.
200	2-methoxyethyl acetate	110-49-6	203-772-9	0.01	N.D.	N.D.	N.D.
201	TNPP Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	0.01	N.D.	N.D.	N.D.
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	-	0.01	N.D.	N.D.	N.D.
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	-	0.01	N.D.	N.D.	N.D.
204	Diisohexyl phthalate	71850-09-4	276-090-2	0.01	N.D.	N.D.	N.D.
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	0.01	N.D.	N.D.	N.D.
206	1-vinylimidazole	1072-63-5	214-012-0	0.01	N.D.	N.D.	N.D.
207	2-methylimidazole	693-98-1	211-765-7	0.01	N.D.	N.D.	N.D.
208	Butyl 4-hydroxybenzoate	94-26-8	202-318-7	0.01	N.D.	N.D.	N.D.
209	Dibutylbis ( pentane-2 , 4-dionato- O , O ) tin	22673-19-4	245-152-0	0.01	N.D.	N.D.	N.D.
210	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	205-594-7	0.01	N.D.	N.D.	N.D.
211	Dioctyltin dilaurate, stannane, Dioctyl-, bis(cocoacyloxy) derivs, and any other stannane, dioctyl-, bis(fatty acyloxy) derivs, wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	-	0.01	N.D.	N.D.	N.D.

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REPORT No.: **DTIBW20221821R**

Date: 2022-09-27

Page 17 of 22

No.	Items	CAS No.	EC No.	RL(%)	Results(%)		
					(1)	(2)	In product
212	1,4-dioxane	123-91-1	204-661-8	0.01	N.D.	N.D.	N.D.
213	2,2-bis(bromomethyl) propane 1,3-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	221-967-7; 253-057-0; 202-480-9	0.01	N.D.	N.D.	N.D.
214	2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers	-	-	0.01	N.D.	N.D.	N.D.
215	4,4'-(1-methylpropylidene) bisphenol (bisphenol B)	77-40-7	201-025-1	0.01	N.D.	N.D.	N.D.
216	Glutaral	111-30-8	203-856-5	0.01	N.D.	N.D.	N.D.
217	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	N.D.	N.D.	N.D.
218	Orthoboric acid, sodium salt	13840-56-7	237-560-2	0.01	N.D.	N.D.	N.D.
219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual (PDDP)	-	-	0.01	N.D.	N.D.	N.D.
220	6,6'-di-tert-butyl-2,2'-methylene-dip-cresol(DBMC)	119-47-1	204-327-1	0.01	N.D.	N.D.	N.D.
221	Tris-(2-methoxyethoxy)-vinylsilane	1067-53-4	213-934-0	0.01	N.D.	N.D.	N.D.
222	(±)-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)	-	-	0.01	N.D.	N.D.	N.D.
223	S-(tricyclo[5.2.1.0 <sup>2,6</sup> ]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	401-850-9	0.01	N.D.	N.D.	N.D.
224	N-(hydroxymethyl)acrylamide	924-42-5	213-103-2	0.01	N.D.	N.D.	N.D.

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# TEST REPORT

REPORT No.:DTIBW20221821R

Date:2022-09-27

Page 18 of 22

Note:

- w/w % = weight by weight  
N.D. = Not Detected , lower than RL(Reporting Limit)
- \*:Concentration value of the substance bythe conversion from the test results of certain elements.  
Concentration value of Bis(tributyltin)oxide(TBTO), 2-ethylhexyl 10-ethyl-4,4-dioctyl-7- oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE), 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) by the conversion from the test results of certain compounds (Tributyl Tins(TBT), Dioctyl Tins(DOT), Monoctyl Tins(MOT)).
- \*\*:All refractory ceramic fibres are coveredby index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packagingof chemical substances and mixtures, the so called CLP Regulation(Regulation (EC) No 1272/2008).
- \*\*\*:C.I.: Colour Index
- \*\*\*\*:Light fractions from distillation
- \*\*\*\*\*:Concentration value of Disodium tetraborate, anhydrous and Tetraboron disodium heptaoxide, hydrate is evaluated by Disodium tetraborate, with no consider of the hydrate. Concentration value of Sodium perborate; perboric acid, sodium salt; Sodium peroxometaborate is evaluated by Sodium perborate, with noconsider of the hydrate.
- ^:Concentration value of Formaldehyde, oligomeric reaction productswith aniline (technical MDA) by the conversion from the test results of certain compounds (2,4-Diaminodiphenylmethane, 4,4'-Diaminodiphenylmethane, 2,6-Diaminodiphenylmethane).
- ①:In view of the substances are established as UVCB substances(substancesof unknown or variable composition, complex reaction products or biological materials) consisting ofdifferent and variable constituents, the test results are calculated based on the main constituents of therepresentative compounds for substances.
- ②: In view of the substance containvariable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated basedon the result of specified heavy metal elements.
- ③ :Concentration value of Boric acid; Disodiumtetraborate, anhydrous; Tetraboron disodium heptaoxide, hydrate; Diboron trioxide; Sodium perborate;perboric acid, sodium salt; Sodium peroxometaborate is calculated by the conversion from the test resultsof certain elements and confirmed by appropriate solvent extraction, meanwhile the book of materials issuggested to be checked for further confirmation

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# TEST REPORT

REPORT No.: **DTIBW20221821R**

Date: 2022-09-27

Page 19 of 22

**Remark:**

- 1. Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
  - 1) Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance
  - 2) On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.
- 2. The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 3 and Annex II of REACH.
- 3. The supplier of a mixture that contains a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.
  - 1) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.
  - 2) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of  $\geq 0.1$  % by weight for non-gaseous mixtures or  $\geq 0.2$  % by volume for gaseous mixtures.
- Decision rule: According to DTI-CX-39-2022 《Decision rule for conformity of the test results》.
- Flow chart appendix is included.
- Photo appendix is included.
- #= This data is the corrected retest data.

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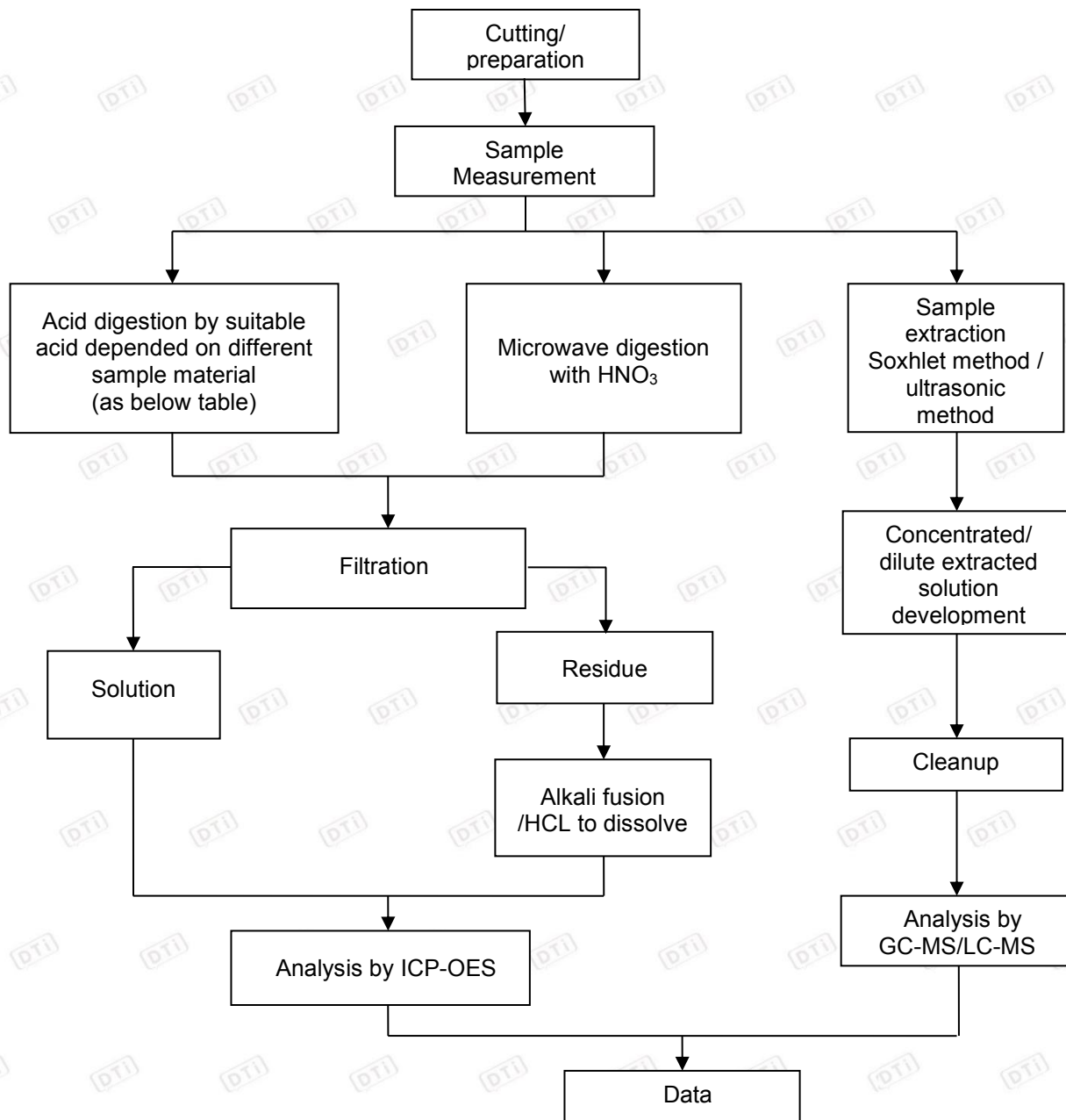


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## Appendix



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# TEST REPORT

REPORT No.:DTIBW20221821R

Date:2022-09-27

Page 21 of 22

Table:

Sample material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO <sub>3</sub> , HCL, HF, H <sub>2</sub> O <sub>2</sub>
Glass	HNO <sub>3</sub> /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO <sub>3</sub>
Plastic	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> ,HCL
Others	Any acid to total digestion

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# TEST REPORT

REPORT No.: **DTIBW20221821R**

Date: 2022-09-27

Page 22 of 22

Photograph of Sample



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

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