

Report No. 70.400.21.2512.01-00.02

Dated 2021-08-25



China

Technical Report

Applicant: WuYi sting3d Technology Co.,Ltd
No.7 Technology Zone 316# WuJiang Road
Wuyi
321200 Jinhua
PEOPLE'S REPUBLIC OF CHINA

Attn: Leo Zhang

Manufacturer: NA

Test subject: **Product name:** PLA RRO & PETG & PLA Flexible PLUS
Model No.: 1.75mm/2.85mm/3.0mm

Test specification: Screening of 219 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on regulation (EC) No 1907/2006 (REACH).

Test method: Digested with acid, the elements are analyzed by ICP-OES and UV-VIS.
Organic solvent extraction, GC-MS, LC-MS, HPLC-DAD, GC-ECD analysis

Test result: Refer to the data listed in following pages

Conclusion: According to the specified scope and analytical techniques, the concentration of each SVHC is < 0.1% (w/w) in the component(s) of submitted product(s)

Remarks:

1. The results relates only to the items tested
2. Samples were tested as received

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1. Order

1.1 Date of Purchase Order
2021-08-09

1.2 Customer's Reference
Nil

1.3 Receipt Date of Test Sample
2021-08-09

1.4 Date of Testing
2021-08-09 to 2021-08-16

1.5 Document submitted
Nil

1.6 Location of Testing
TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

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2. Description of the tested subject

Sample No.	Description	Photograph/Location
01	Pink plastic / (/)	
02	Red plastic / (/)	
03	Green plastic / (/)	
04	Beige plastic / (/)	

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Sample No.	Description	Photograph/Location
05	Brown plastic / (I)	 A photograph of a coil of brown plastic material, likely a cable or wire, against a blue background. A red arrow points to the coil.
06	Yellow plastic / (I)	 A photograph of a coil of yellow plastic material, likely a cable or wire, against a blue background. A red arrow points to the coil.
07	Orange plastic / (I)	 A photograph of a coil of orange plastic material, likely a cable or wire, against a blue background. A red arrow points to the coil.
08	Blue plastic / (I)	 A photograph of a coil of blue plastic material, likely a cable or wire, against a blue background. A red arrow points to the coil.

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Sample No.	Description	Photograph/Location
09	White plastic / (I)	
10	Yellow plastic / (I)	
11	White plastic / (I)	
12	Semi-transparent plastic / (I)	

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Sample No.	Description	Photograph/Location
13	Pink plastic / (I)	 A photograph of a coiled pink plastic material on a blue background. A red arrow points to the coil.
14	Orange plastic / (I)	 A photograph of a coiled orange plastic material on a blue background. A red arrow points to the coil.
15	Yellow plastic / (I)	 A photograph of a coiled yellow plastic material on a blue background. A red arrow points to the coil.
16	Red plastic / (I)	 A photograph of a coiled red plastic material on a blue background. A red arrow points to the coil.

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Sample No.	Description	Photograph/Location
17	Gray plastic / (I)	 A photograph of a gray plastic ring, likely a cable or hose, coiled into a circle. A red arrow points to the ring.
18	Purple plastic / (I)	 A photograph of a purple plastic ring, likely a cable or hose, coiled into a circle. A red arrow points to the ring.
19	Transparent plastic / (I)	 A photograph of a transparent plastic ring, likely a cable or hose, coiled into a circle. A red arrow points to the ring.
20	Red plastic / (I)	 A photograph of a red plastic ring, likely a cable or hose, coiled into a circle. A red arrow points to the ring.

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Sample No.	Description	Photograph/Location
21	Yellow plastic / (I)	 A photograph of a coiled yellow plastic sample on a blue background. A red arrow points to the plastic.
22	White plastic / (I)	 A photograph of a coiled white plastic sample on a blue background. A red arrow points to the plastic.
23	Blue plastic / (I)	 A photograph of a coiled blue plastic sample on a blue background. A red arrow points to the plastic.
24	Orange plastic / (I)	 A photograph of a coiled orange plastic sample on a blue background. A red arrow points to the plastic.

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Sample No.	Description	Photograph/Location
25	Gray plastic / (I)	 A photograph of a coiled gray plastic sample on a blue background. A red arrow points to the coiled plastic.
26	Green plastic / (I)	 A photograph of a coiled green plastic sample on a blue background. A red arrow points to the coiled plastic.
27	Purple plastic / (I)	 A photograph of a coiled purple plastic sample on a blue background. A red arrow points to the coiled plastic.

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3. Test Results

Screening of 219 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on regulation (EC) No 1907/2006 (REACH).

Test portion is digested with acid, the elements are analyzed by ICP-OES and UV-VIS.

Organic solvent extraction, GC-MS, LC-MS, HPLC-DAD, GC-ECD analysis

Test Item	Result		
	Sample 001+002+003+004+005+ 006+007+008+009	Sample 010+011+012+013+014+ 015+016+017+018	Sample 019+020+021+022+023+ 024+025+026+027
Screening of 219 Substances of Very High Concern (SVHC)	< 0.01%	< 0.01%	< 0.01%

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219 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on regulation (EC) No 1907/2006 (REACH).

Item No.	Tested Items	MDL (%)	Classification
1.	Anthracene (CAS No. 120-12-7)	0.01	PBT (article 57d)
2.	4,4'- Diaminodiphenylmethane (CAS No. 101-77-9)	0.01	Carcinogenic (article 57a)
3.	Cobalt dichloride** (CAS No. 7646-79-9)	0.01	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
4.	Diarsenic pentaoxide** (CAS No. 1303-28-2)	0.01	Carcinogenic (article 57a)
5.	Diarsenic trioxide** (CAS No. 1327-53-3)	0.01	Carcinogenic (article 57a)
6.	Lead hydrogen arsenate** (CAS No. 7784-40-9)	0.01	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
7.	Triethyl arsenate** (CAS No. 15606-95-8)	0.01	Carcinogenic (article 57a)
8.	5-tert-butyl-2,4,6-trinitro-m-xylene (CAS No. 81-15-2)	0.01	vPvB (article 57e)
9.	Dis (2-ethylhexyl) phthalate (CAS No. 117-81-7)	0.01	Toxic for reproduction (article 57c) Endocrine disrupting properties (Article 57(f) - human health)
10.	Dibutyl phthalate (CAS No. 84-74-2)	0.01	Toxic for reproduction (article 57c) Endocrine disrupting properties

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Item No.	Tested Items	MDL (%)	Classification
			(Article 57(f) - human health)
11.	Hexabromocyclododecane (CAS No. 25637-99-4)	0.01	PBT (article 57d)
12.	Alkanes, C10-13, chloro (CAS No. 85535-84-8)	0.01	PBT and vPvB (articles 57 d and 57 e)
13.	Benzyl butyl phthalate (CAS No. 85-68-7)	0.01	Toxic for reproduction (article 57c) Endocrine disrupting properties (Article 57(f) - human health)
14.	Bis(tributyltin)oxide (CAS No. 56-35-9)	0.01	PBT (article 57d)
15.	Sodium dichromate** (CAS No. 7789-12-0)	0.01	Carcinogenic, mutagenic and toxic for reproduction (articles 57a, 57b and 57c)
16.	Anthracene oil### (CAS No. 90640-80-5)	0.01	Carcinogenic1, PBT and vPvB (articles 57a, 57d and 57e)
17.	Anthracene oil, anthracene paste; distn. Lights## (CAS No. 91995-17-4)	0.01	PBT & vPvB, Carcinogen category 2, Mutagen category 2
18.	Anthracene oil, anthracene paste, anthracene fraction## (CAS No. 91995-15-2)	0.01	Carcinogenic2, mutagenic3, PBT and vPvB (articles 57a, 57b, 57d and 57e)
19.	Anthracene oil, anthracene-low###	0.01	Carcinogenic2, mutagenic3, PBT

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	(CAS No. 90640-82-7)		and vPvB (articles 57a, 57b, 57d and 57e)
20.	Anthracene oil, anthracene paste ^{##} (CAS No. 90640-81-6)	0.01	Carcinogenic ² , mutagenic ³ , PBT and vPvB (articles 57a, 57b, 57d and 57e)
21.	Coal tar pitch, high temperature (CAS No. 65996-93-2) ^{##}	0.01	Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)
22.	2,4-Dinitrotoluene (CAS No. 121-14-2)	0.01	Carcinogenic (article 57a)
23.	Diisobutyl phthalate (CAS No. 84-69-5)	0.01	Toxic for reproduction (article 57c) Endocrine disrupting properties (Article 57(f) - human health)
24.	Lead chromate ^{**} (CAS No. 7758-97-6)	0.01	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
25.	Lead chromate molybdate sulfate red (C.I. Pigment Red 104) ^{**} (CAS No. 12656-85-8)	0.01	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
26.	Lead sulfochromate yellow (C.I. Pigment Yellow 34) ^{**} (CAS No. 1344-37-2)	0.01	Carcinogenic and toxic for reproduction (articles 57 a and 57 c))

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Item No.	Tested Items	MDL (%)	Classification
27.	Tris(2-chloroethyl)phosphate (CAS No. 115-96-8)	0.01	Toxic for reproduction (article 57c)
28.	Acrylamide (79-06-01)	0.01	Carcinogenic (article 57 a)
29.	Boric acid** (10043-35-3)	0.01	Toxic for reproduction (article 57 c)
30.	Disodium tetraborate, anhydrous** (1330-43-4)	0.01	Toxic to Reproduction category 2
31.	Teraboron disodium heptaoxide,hydrate** (12267-73-1)	0.01	Toxic to Reproduction category 2
32.	Sodium Chromate** (7775-11-3)	0.01	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
33.	Potassium Chromate** (7789-00-6)	0.01	Carcinogenic and mutagenic (articles 57 a and 57 b).
34.	Ammonium dichromate** (7789-09-5)	0.01	Carcinogen Category2; Mutagen Category2; Toxic to Reproduction Category2
35.	Potassium dichromate** (7778-50-9)	0.01	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
36.	Trichloroethylene (79-01-6)	0.01	Carcinogenic (article 57 a)

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Item No.	Tested Items	MDL (%)	Classification
37.	Cobalt(II) sulphate** (10124-43-3)	0.01	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
38.	Cobalt(II) dinitrate** (10141-05-6)	0.01	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
39.	Cobalt(II) carbonate** (513-79-1)	0.01	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
40.	Cobalt(II) diacetate** (71-48-7)	0.01	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
41.	2-Methoxyethanol (109-86-4)	0.01	Toxic for reproduction (article 57c)
42.	2-Ethoxyethanol (110-80-5)	0.01	Toxic for reproduction (article 57c)
43.	Chromium trioxide** (1333-82-0)	0.01	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

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Item No.	Tested Items	MDL (%)	Classification
44.	Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid**	0.01	Carcinogenic (article 57a)
45.	2-Ethoxyethyl acetate (2-EEA) (111-15-9)	0.01	Toxic for reproduction (article 57c)
46.	Strontium chromate** (7789-06-2)	0.01	Carcinogenic (article 57a)
47.	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) (68515-42-4)	0.01	Toxic for reproduction (article 57c)
48.	Hydrazine (302-01-2, 7803-57-8)	0.01	Carcinogenic (article 57a)
49.	Methyl-2-pyrrolidone (872-50-4)	0.01	Toxic for reproduction (article 57c)
50.	1,2,3-Trichloropropane (96-18-4)	0.01	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
51.	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (71888-89-6)	0.01	Toxic for reproduction (article 57c)
52.	Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium	0.01	Carcinogenic (article 57 a)

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Item No.	Tested Items	MDL (%)	Classification
	are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight **		
53.	Calcium arsenate** (7778-44-1)	0.01	Carcinogenic (article 57 a)
54.	Bis(2-methoxyethyl) ether (111-96-6)	0.01	Toxic for reproduction (article 57 c)
55.	Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight **	0.01	Carcinogenic (article 57 a)
56.	Potassium hydroxyoctaoxodizincatedichromate** (11103-86-9)	0.01	Carcinogenic (article 57 a)
57.	Lead dipicrate** (6477-64-1)	0.01	Toxic for reproduction (article 57 c)
58.	N,N-dimethylacetamide (127-19-5)	0.01	Toxic for reproduction

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Item No.	Tested Items	MDL (%)	Classification
			(article 57 c)
59.	Arsenic acid** (7778-39-4)	0.01	Carcinogenic (article 57 a)
60.	2-Methoxyaniline; o-Anisidine (90-04-0)	0.01	Carcinogenic (article 57 a)
61.	Trilead diarsenate** (3687-31-8)	0.01	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
62.	1,2-dichloroethane (107-06-2)	0.01	Carcinogenic (article 57 a)
63.	Pentazinc chromate octahydroxide** (49663-84-5)	0.01	Carcinogenic (article 57 a)
64.	Formaldehyde, oligomeric reaction products with aniline (25214-70-4)	0.01	Carcinogenic (article 57 a)
65.	Bis(2-methoxyethyl) phthalate (117-82-8)	0.01	Toxic for reproduction (article 57 c)
66.	4-(1,1,3,3-tetramethylbutyl)phenol (140-66-9)	0.01	Equivalent level of concern having probable serious effects to the environment (article 57 f)
67.	Lead diazide, Lead azide** (13424-46-9)	0.01	Toxic for reproduction (article 57 c),
68.	Phenolphthalein (77-09-8)	0.01	Carcinogenic (article 57 a)

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Item No.	Tested Items	MDL (%)	Classification
69.	Dichromium tris(chromate) (24613-89-6)**	0.01	Carcinogenic (article 57 a)
70.	Lead styphnate** (15245-44-0)	0.01	Toxic for reproduction (article 57 c)
71.	2,2'-dichloro-4,4'-methylenedianiline (101-14-4)	0.01	Carcinogenic (article 57 a)
72.	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [#] (6786-83-0)	0.01	Carcinogenic (Article 57a)
73.	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (101-61-1)	0.01	Carcinogenic (Article 57a)
74.	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	Mutagenic (Article 57b)
75.	Diboron trioxide** (1303-86-2)	0.01	Toxic for reproduction (Article 57 c)
76.	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) (112-49-2)	0.01	Toxic for reproduction (Article 57 c)
77.	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [#] (561-41-1)	0.01	Carcinogenic (Article 57a)
78.	Lead(II) bis(methanesulfonate)** (17570-76-2)	0.01	Toxic for reproduction (Article 57 c)
79.	Formamide (75-12-7)	0.01	Toxic for reproduction (Article 57 c)
80.	4-[4,4'-bis(dimethylamino)benzhydrylidene] cyclohexa-2,5- dien-1-ylidene]dimethylammonium chloride(C.I. Basic Violet 3) [#]	0.01	Carcinogenic (Article 57a)

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Item No.	Tested Items	MDL (%)	Classification
	(548-62-9)		
81.	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) (110-71-4)	0.01	Toxic for reproduction (Article 57 c)
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)	0.01	Carcinogenic (Article 57a)
83.	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) (2451-62-9)	0.01	Mutagenic (Article 57b)
84.	4,4'-bis(dimethylamino)benzophenone (Michler's ketone) (90-94-8)	0.01	Carcinogenic (Article 57a)
85.	Pyrochlore, antimony lead yellow** (8012-00-8)	0.01	Toxic for reproduction (Article 57 c)
86.	6-methoxy-m-toluidine (p-cresidine) (120-71-8)	0.01	Carcinogenic (Article 57a)
87.	Henicosafuoroundecanoic acid (2058-94-8)	0.01	vPvB (Article 57 e)
88.	Hexahydromethylphthalic anhydride [1], 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	Equivalent level of concern having probable serious effects to human health (Article 57 f)
89.	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	Equivalent level of concern having probable serious effects to human health (Article 57 f)

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Item No.	Tested Items	MDL (%)	Classification
90.	Dibutyltin dichloride (DBTC) (683-18-1)	0.01	Toxic for reproduction (Article 57 c)
91.	Lead bis(tetrafluoroborate)** (13814-96-5)	0.01	Toxic for reproduction (Article 57 c)
92.	Lead dinitrate** (10099-74-8)	0.01	Toxic for reproduction (Article 57 c)
93.	Silicic acid, lead salt** (11120-22-2)	0.01	Toxic for reproduction (Article 57 c)
94.	4-Aminoazobenzene (60-09-3)	0.01	Carcinogenic (Article 57a)
95.	Lead titanium zirconium oxide** (12626-81-2)	0.01	Toxic for reproduction (Article 57 c)
96.	Lead monoxide (lead oxide)** (1317-36-8)	0.01	Toxic for reproduction (Article 57 c)
97.	o-Toluidine (95-53-4)	0.01	Carcinogenic (Article 57a)
98.	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine (143860-04-2)	0.01	Toxic for reproduction (Article 57 c)
99.	Silicic acid (H ₂ Si ₂ O 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]** (68784-75-8)	0.01	Toxic for reproduction (Article 57 c)

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Item No.	Tested Items	MDL (%)	Classification
100.	Trilead bis(carbonate)dihydroxide** (1319-46-6)	0.01	Toxic for reproduction (Article 57 c)
101.	Furan (110-00-9)	0.01	Carcinogenic (Article 57a)
102.	N,N-dimethylformamide (68-12-2)	0.01	Toxic for reproduction (Article 57 c)
103.	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	0.01	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
104.	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]	0.01	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
105.	4,4'-methylenedi-o-toluidine (838-88-0)	0.01	Carcinogenic (Article 57a)
106.	Diethyl sulphate (64-67-5)	0.01	Carcinogenic (Article 57a); Mutagenic (Article 57b)
107.	Dimethyl sulphate (77-78-1)	0.01	Carcinogenic (Article 57a)
108.	Lead oxide sulfate** (12036-76-9)	0.01	Toxic for reproduction (Article 57 c)

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Item No.	Tested Items	MDL (%)	Classification
109.	Lead titanium trioxide** (12060-00-3)	0.01	Toxic for reproduction (Article 57 c)
110.	Acetic acid, lead salt, basic** (51404-69-4)	0.01	Toxic for reproduction (Article 57 c)
111.	[Phthalato(2-)]dioxotrilead** (69011-06-9)	0.01	Toxic for reproduction (Article 57 c)
112.	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE) (1163-19-5)	0.01	PBT (Article 57 d); vPvB (Article 57 e)
113.	N-methylacetamide (79-16-3)	0.01	Toxic for reproduction (Article 57 c)
114.	Dinoseb (6-sec-butyl-2,4-dinitrophenol) (88-85-7)	0.01	Toxic for reproduction (Article 57 c)
115.	1,2-Diethoxyethane (629-14-1)	0.01	Toxic for reproduction (Article 57 c)
116.	Tetralead trioxide sulphate** (12202-17-4)	0.01	Toxic for reproduction (Article 57 c)
117.	N-pentyl-isopentylphthalate (776297-69-9)	0.01	Toxic for reproduction (Article 57 c)
118.	Dioxobis(stearato)trilead** (12578-12-0)	0.01	Toxic for reproduction (Article 57 c)
119.	Tetraethyllead** (78-00-2)	0.01	Toxic for

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Item No.	Tested Items	MDL (%)	Classification
			reproduction (Article 57 c)
120.	Pentalead tetraoxide sulphate** (12065-90-6)	0.01	Toxic for reproduction (Article 57 c)
121.	Pentacosafuorotridecanoic acid (72629-94-8)	0.01	vPvB (Article 57 e)
122.	Tricosafuorododecanoic acid (307-55-1)	0.01	vPvB (Article 57 e)
123.	Heptacosafuorotetradecanoic acid (376-06-7)	0.01	vPvB (Article 57 e)
124.	1-bromopropane (n-propyl bromide) (106-94-5)	0.01	Toxic for reproduction (Article 57 c)
125.	Methoxyacetic acid (625-45-6)	0.01	Toxic for reproduction (Article 57 c)
126.	4-methyl-m-phenylenediamine (toluene-2,4-diamine) (95-80-7)	0.01	Carcinogenic (Article 57a)
127.	Methyloxirane (Propylene oxide) (75-56-9)	0.01	Carcinogenic (Article 57a); Mutagenic (Article 57b)
128.	Trilead dioxide phosphonate** (12141-20-7)	0.01	Toxic for reproduction (Article 57 c)
129.	o-aminoazotoluene (97-56-3)	0.01	Carcinogenic (Article 57a)
130.	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (84777-06-0)	0.01	Toxic for reproduction (Article 57 c)

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Item No.	Tested Items	MDL (%)	Classification
131.	4,4'-oxydianiline and its salts (101-80-4)	0.01	Carcinogenic (Article 57a); Mutagenic (Article 57b)
132.	Orange lead (lead tetroxide)** (1314-41-6)	0.01	Toxic for reproduction (Article 57 c)
133.	Biphenyl-4-ylamine (92-67-1)	0.01	Carcinogenic (Article 57a)
134.	Diisopentylphthalate (605-50-5)	0.01	Toxic for reproduction (Article 57 c)
135.	Fatty acids, C16-18, lead salts** (91031-62-8)	0.01	Toxic for reproduction (Article 57 c)
136.	Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide)) (123-77-3)	0.01	Equivalent level of concern having probable serious effects to human health (Article 57 f)
137.	Sulfurous acid, lead salt, dibasic** (62229-08-7)	0.01	Toxic for reproduction (Article 57 c)
138.	Lead cyanamidate** (20837-86-9)	0.01	Toxic for reproduction (Article 57 c)
139.	Cadmium (7440-43-9)	0.01	Carcinogenic (Article 57a); Equivalent level of concern

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Item No.	Tested Items	MDL (%)	Classification
			having probable serious effects to human health (Article 57 f)
140.	Ammonium pentadecafluorooctanoate (APFO) (3825-26-1)	0.01	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
141.	Pentadecafluorooctanoic acid (PFOA) (335-67-1)	0.01	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
142.	Dipentyl phthalate (DPP) (131-18-0)	0.01	Toxic for reproduction (Article 57 c);
143.	4-Nonylphenol, branched and linear, ethoxylated <i>[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]</i>	0.01	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
144.	Cadmium oxide** (1306-19-0)	0.01	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)

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Item No.	Tested Items	MDL (%)	Classification
145.	Cadmium sulphide** (1306-23-6)	0.01	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
146.	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38) (1937-37-7)	0.01	Carcinogenic (Article 57a)
147.	Dihexyl phthalate (84-75-3)	0.01	Toxic for reproduction (Article 57 c)
148.	Imidazolidine-2-thione; (2-imidazoline-2-thiol) (96-45-7)	0.01	Toxic for reproduction (Article 57 c)
149.	Trixylyl phosphate (25155-23-1)	0.01	Toxic for reproduction (Article 57 c)
150.	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) (573-58-0)	0.01	Carcinogenic (Article 57a)
151.	Lead di(acetate)** (301-04-2)	0.01	Toxic for reproduction (Article 57 c);
152.	Cadmium chloride (10108-64-2)	0.01	Carcinogenic (Article 57a); Mutagenic

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Item No.	Tested Items	MDL (%)	Classification
			(Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
153.	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (68515-50-4)	0.01	Toxic for reproduction (Article 57 c)
154.	Sodium peroxometaborate** (7632-04-4)	0.01	Toxic for reproduction (Article 57 c)
155.	Sodium perborate; perboric acid, Sodium salt**	0.01	Toxic for reproduction (Article 57 c)
156.	Cadmium fluoride** (7790-79-6)	0.01	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for Reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
157.	Cadmium sulphate** (10124-36-4;31119-53-6)	0.01	Carcinogenic (Article 57 a); Mutagenic (article 57 b); Toxic for Reproduction

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			(Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
158.	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) (3846-71-7)	0.01	PBT (Article 57 d); vPvB (Article 57 e)
159.	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol(UV-328) (25973-55-1)	0.01	PBT (Article 57 d); vPvB (Article 57 e)
160.	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) (15571-58-1)	0.01	Toxic for Reproduction (Article 57 c)
161.	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)	0.01	Toxic for Reproduction (Article 57 c)
162.	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (68515-51-5, 68648-93-1)	0.01	Toxic for Reproduction (Article 57 c)
163.	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	0.01	vPvB (Article 57 e)
164.	Perfluorononan-1-oic-acid and its sodium and ammonium salts (375-95-1, 21049-39-8, 4149-60-4)	0.01	Toxic for reproduction (Article 57 c) PBT (Article 57 d)
165.	Nitrobenzene (98-95-3)	0.01	Toxic for reproduction (Article 57 c)

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Item No.	Tested Items	MDL (%)	Classification
166.	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) (36437-37-3)	0.01	vPvB (Article 57 e)
167.	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) (3864-99-1)	0.01	vPvB (Article 57 e)
168.	1,3-propanesultone (1120-71-4)	0.01	Carcinogenic (Article 57 a)
169.	Benzo[def]chrysene (Benzo[a]pyrene) (50-32-8)	0.01	Carcinogenic (Article 57 a) Mutagenic (Article 57 b) Toxic for reproduction (Article 57 c); PBT (Article 57 d) vPvB (Article 57 e)
170.	4,4'-isopropylidenediphenol (Bisphenol A, BPA) (80-05-7)	0.01	Toxic for reproduction (Article 57 c) Endocrine disrupting properties (Article 57(f) - human health)
171.	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts (335-76-2, 3830-45-3, 3108-42-7)	0.01	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
172.	p-(1,1-dimethylpropyl)phenol (pentyphenol, PTAP) (80-46-6)	0.01	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
173.	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,	0.01	Equivalent level of concern having probable

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Item No.	Tested Items	MDL (%)	Classification
	covering also UVCB-and well-defined substances which include any of the individual isomers or a combination thereof]		serious effects to the environment (Article 57 f)
174.	Perfluorohexane-1-sulphonic acid and its salts (PFHxS) (355-46-4)	0.01	vPvB (Article 57 e)
175.	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 (4-HPbl)]	0.01	Endocrine disrupting properties (Article 57(f) - environment)
176.	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	vPvB (Article 57e)
177.	Chrysene (218-01-9, 1719-03-5)	0.01	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
178.	Cadmium nitrate (10022-68-1, 10325-94-7)	0.01	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
179.	Cadmium hydroxide (21041-95-2)	0.01	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
180.	Cadmium carbonate (513-78-0)	0.01	Carcinogenic (Article 57a)

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Item No.	Tested Items	MDL (%)	Classification
			Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
181.	Benz[a]anthracene (56-55-3, 1718-53-2)	0.01	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
182.	Octamethylcyclotetrasiloxane (D4) (556-67-2)	0.01	PBT (Article 57d); vPvB (Article 57e)
183.	Decamethylcyclopentasiloxane (D5) (541-02-6)	0.01	PBT (Article 57d); vPvB (Article 57e)
184.	Dodecamethylcyclohexasiloxane (D6) (540-97-6)	0.01	PBT (Article 57d); vPvB (Article 57e)
185.	Lead (7439-92-1)	0.01	Toxic for reproduction (Article 57c)
186.	Disodium octaborate (12008-41-2)	0.01	Toxic for reproduction (Article 57c)
187.	Benzo[ghi]perylene (191-24-2)	0.01	PBT (Article 57d); vPvB (Article 57e)
188.	Terphenyl hydrogenated (61788-32-7)	0.01	vPvB (Article 57e)
189.	Ethylenediamine (EDA) (107-15-3)	0.01	Respiratory sensitising properties (Article 57(f) - human health)

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Item No.	Tested Items	MDL (%)	Classification
190.	Dicyclohexyl phthalate (DCHP) (84-61-7)	0.01	Toxic for reproduction (Article 57(c)); endocrine disrupting properties (Article 57(f) - human health)
191.	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (TMA) (552-30-7)	0.01	Respiratory sensitising properties (Article 57(f)) – human health)
192.	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor) (15087-24-8)	0.01	Endocrine disrupting properties (Article 57(f) - environment)
193.	2,2-bis(4'-hydroxyphenyl)-4-methylpentane (6807-17-6)	0.01	Toxic for reproduction (Article 57c)
194.	Benzo[k]fluoranthene (207-08-9)	0.01	Carcinogenic (Article 57a); PBT (Article 57d); vPvB (Article 57e)
195.	Fluoranthene (206-44-0)	0.01	PBT (Article 57d); vPvB (Article 57e)
196.	Phenanthrene (85-01-8)	0.01	vPvB (Article 57e)
197.	Pyrene (129-00-0)	0.01	PBT (Article 57d); vPvB (Article 57e)

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Item No.	Tested Items	MDL (%)	Classification
198.	2-methoxyethyl acetate (110-49-6)	0.01	Toxic for reproduction (Article 57 (c))
199.	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	0.01	Endocrine disrupting properties (Article 57(f) – environment)
200.	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	Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) Equivalent level of concern having probable serious effects to human health (Article 57(f) – human health)
201.	4-tert-butylphenol (98-54-4)	0.01	Endocrine disrupting properties (Article 57(f) – environment)
202.	Diisohexyl phthalate (71850-09-4)	0.01	Toxic for reproduction (Article 57c)
203.	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone (119313-12-1)	0.01	Toxic for reproduction (Article 57c)
204.	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one (71868-10-5)	0.01	Toxic for reproduction (Article 57c)

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Item No.	Tested Items	MDL (%)	Classification
205.	Perfluorobutane sulfonic acid (PFBS) and its salts	0.01	Equivalent level of concern having probable serious effects on the environment (Article 57f) Equivalent level of concern having probable serious effects on human health (Article 57f)
206.	1-vinylimidazole (1072-63-5)	0.01	Toxic for reproduction (Article 57 (c))
207.	2-methylimidazole (693-98-1)	0.01	Toxic for reproduction (Article 57 (c))
208.	Dibutylbis(pentane-2,4-dionato-O,O')tin (22673-19-4)	0.01	Toxic for reproduction (Article 57 (c))
209.	Butyl 4-hydroxybenzoate (Butylparaben) (94-26-8)	0.01	Endocrine disrupting properties - human health (Article 57(f) – human health)
210.	Bis(2-(2-methoxyethoxy)ethyl)ether (143-24-8)	0.01	Toxic for reproduction (Article 57c)
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	0.01	Toxic for reproduction (Article 57c)
212.	1,4-dioxane (CAS No. 123-91-1)	0.01	Carcinogenic (Article 57a) Equivalent level of concern having probable serious effects to

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Item No.	Tested Items	MDL (%)	Classification
			human health (Article 57(f) - human health) Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)
213.	2,2-bis(bromomethyl)propane 1,3-diol (BMP) (CAS No. 3296-90-0) 2,2-dimethylpropan-1-ol, tribromoderivative 3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) (CAS No. 36483-57-5, 1522-92-5) 2,3-dibromo-1propanol (2,3-DBPA) (CAS No. 96-13-9)	0.01	Carcinogenic (Article 57a)
214.	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	0.01	Toxic for reproduction (Article 57c)
215.	4,4'-(1-methylpropylidene)bisphenol (bisphenol B) (CAS No. 77-40-7)	0.01	Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)
216.	Glutaral (CAS No. 111-30-8)	0.01	Respiratory sensitising properties (Article 57(f) - human health)
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	0.01	PBT (Article 57d) vPvB (Article 57e)

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Item No.	Tested Items	MDL (%)	Classification
	from C14 to C17]		
218.	Orthoboric acid, sodium salt (CAS No. 13840-56-7)	0.01	Toxic for reproduction (Article 57c)
219.	Phenol, alkylation products (mainly in paraposition) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	0.01	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)

Remark:

1. Above result for the submitted samples are calculated based on relevant material testing data.
2. ** Denotes result is based on the heavy metal or inorganic element concentration. Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.
3. ## The substances are UVCB(substance of unknown or variable composition, complex reaction products or biological materials), which are identified by it main constituents. Individual concentrations to the constituent of UVCB with an amount of <0.01% were not considered by the calculation of the sum.
4. # only applicable with $\geq 0.1\%$ of Michler's ketone (CAS No. 90-94-8) or Michler's base (CAS No. 101-61-1)
5. The analysis of 219 SVHC is done by currently available test & screening techniques against the SVHC candidate list published by European Chemical Agency (ECHA).

Refer to http://echa.europa.eu/chem_data/candidate_list_table_en.asp for details.

6. In accordance with Regulation(EC) No 1907/2006, any producer or importer of substances, preparations and articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1), if both the following conditions are met:

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Disclaimer Measurement Uncertainty:

Unless otherwise agreed upon, Pass or Fail verdicts are given base on the measured values without any considerations of measurement uncertainties.

Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.

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Report No. 70.400.21.2512.01-00.02

Dated 2021-08-25



China

- (a) The substance is present in those articles in quantities totalling over 1 tonne per producer or importer per year;
 - (b) The substance is present in those articles above a concentration of 0.1% weight by weight (w/w).
7. From 28 October 2008, EU & EEA suppliers whose goods contain substances on the Candidate List in a concentration above 0.1%(w/w) must provide sufficient information to their customers and on request to a consumer within 45 days of the receipt of this request. This information must ensure safe use of the article and, as a minimum, include the name of the substance.

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Engineer:


Mr. Yang Sirong

Checked by:


Ms. Qi Nannan

-END OF REPORT -

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Appendix A: Relevant Definitions

Classification	Definition under 67/548/EEC and Regulation (EC) No 1907/2006
Carcinogen category 1	Substances known to be carcinogenic to humans. There is sufficient evidence to establish a causal association between human exposure to the substance and the development of cancer.
Carcinogen category 2	Substances that should be regarded as if they are carcinogenic to humans, there is sufficient evidence, based on long-term animal studies and other relevant information, to provide a strong presumption that human exposure may result in the development of cancer.
Mutagen category 1	Substances known to be mutagenic to humans, There is sufficient evidence to establish a causal association between human exposure to a substance and heritable genetic damage.
Mutagen category 2	Substances which should be regarded as if they are mutagenic to man. There is sufficient evidence to provided a strong presumption that human exposure to the substance may result in the development of heritable genetic damage, generally on the basis of : -appropriate animal studies, -other relevant information.
Toxic to Reproduction category 1:	Substances known to impair fertility in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and impaired fertility. Substances known to cause developmental toxicity in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and subsequent developmental toxic effects in the progeny.

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Disclaimer Measurement Uncertainty:

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Toxic to Reproduction category 2:	Substances which should be regarded as if they impair fertility in humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in impaired fertility on the basis of : -clear evidence in animal studies of impaired fertility in the absence of toxic effects, or, evidence of impaired fertility occurring at around the same dose levels as other toxic effects but which is not a secondary nonspecific consequence of the other . -other relevant information. Substances which should be regarded as if they cause developmental toxicity to humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in developmental toxicity, generally on the basis of : -clear results in appropriate animal studies where effects have been observed in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of the other toxic effects. -other relevant information.
PBT & vPvB	Substances which are persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative(vPvB) pose a particular challenge to the chemicals safety management. For these substances a “safe” concentration in the environment cannot be established with sufficient reliability.

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Disclaimer Measurement Uncertainty:

Unless otherwise agreed upon, Pass or Fail verdicts are given base on the measured values without any considerations of measurement uncertainties.

Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.

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