



Report No.: RTS231213Y1217HLBG7

Date : 2024-01-08

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# TEST REPORT

## Test information

<b>Applicant</b>	:	Tiroflx (Ningbo) Trade CO., LTD
<b>Address</b>	:	ROOM 801,NO.10, NORTH BANK FORTUNE CENTER NINGBO
<b>Sample Description</b>	:	150PSI MINI METAL COMPRESSOR WITH SMALL MOTOR
<b>Style #</b>	:	T10701
<b>Country of origin</b>	:	China.
<b>Receiving Date</b>	:	December 13, 2023.
<b>Test period</b>	:	December 14, 2023.~January 08, 2024.
<b>Test Requested</b>	:	Tests requested in accordance to client requirement.

Signed for and on behalf of  
RTS TEST CO., LTD.( Zhejiang )



BINBIN ZOU

Approved signatory



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Scan for authenticity

### Zhejiang RTS Test Co., LTD.

Phone: +86(0)579-85640080

Email: [ruiyi-8@zj-rt.com](mailto:ruiyi-8@zj-rt.com)

<http://www.irtslab.cn>

浙江省义乌市稠江街道英才创业园B区7幢2-4层,  
Choujiang Street, Yiwu, Zhejiang.

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<u>TEST ITEMS</u>	<u>CONCLUSIONS</u>
Entry 63 of Annex XVII of REACH Regulation (EC)No 1907/2006 Amended by Commission Regulation (EU) 2015/628 - Lead(Pb) test.	FAIL
Entry 23 of Commission Regulation (EU) No 835/2012 Amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Total Cadmium(Cd) Content	PASS
Entry 51&52 of Commission Regulation (EU) 2018/2005 Amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Phthalates content	FAIL
Entry 50 of Commission Regulation (EU) No 1272/2013 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - PAHs Content	FAIL
Entry 43 of Regulation (EC) No 552/2009 and (EU) No.126/2013 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - AZO Dyes test	PASS
Organotin Compounds Content - Entry 20 of Regulation (EC) No 552/2009 and 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006	PASS
According to the specified scope and analytical techniques, concentrations of tested SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.	NOTICE

Notice: Concentrations of tested SVHC are  $>0.1\%$ (w/w) in the submitted sample.-Dibutyl phthalate (DBP), Bis-(2-ethylhexyl)Phthalate(DEHP)

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浙江省义乌市稠江街道英才创业园B区7幢2-4层.  
2-4/f, Building 7, Block B, Ying cai Business Park,  
Choujiang Street, Yiwu, Zhejiang.

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Sample image:



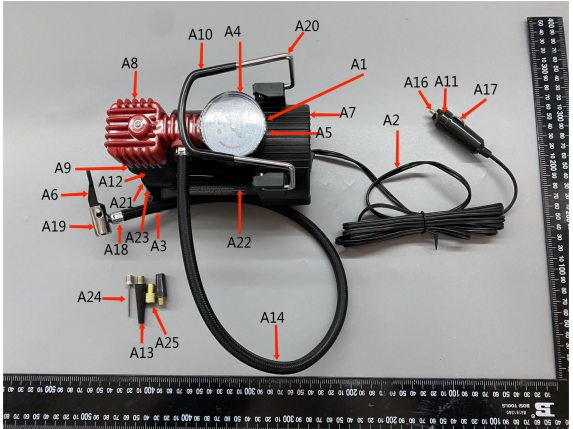
RTS231213Y1217HLBG7-A



RTS231213Y1217HLBG7-A



RTS231213Y1217HLBG7-A



RTS231213Y1217HLBG7-A

**Sample image:**



Test Number	Item/ component description(s)
A2~A14	Black wire sheath & rubber mat (air pump bottom) & transparent lid (water meter part) & Black plastic of water meter & black plastic of air nozzle & black plastic of motor body & (red & silvery) plastic lid & black rubber cover (on the metal handle) & Black plastic plug & black plastic (silvery plastic below) & Black plastic of air nozzle & Braided rope of tube
A16~A25	Silvery plating metal (plug & ring & cap & lid & handle & long screw & air nozzle) & black metal (motor body & sheet) & golden plating metal (air nozzle)

**Test result:****A. lead(Pb) content test:** (Unit: mg/kg)

Entry 63 of Annex XVII of REACH Regulation (EC)No 1907/2006 Amended by Commission Regulation (EU) 2015/628-Lead(Pb) test.

**Test method:** RTS-ZY-008 As per Metal- CPSC-CH-E1001-08.3; Nonmetal- CPSC-CH-E1002-08.3 or Surface coating- CPSC-CH-E1003-09.1, Was analyzed by flame atomic absorption spectrometry(AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Number	Item/ component description(s)
A2&A3&A4	Black wire sheath & rubber mat (air pump bottom) & transparent lid (water meter part)
A2	Black wire sheath
A3	Rubber mat (air pump bottom)
A4	Transparent lid (water meter part)
A5&A6&A7	Black plastic of water meter & black plastic of air nozzle & black plastic of motor body
A8&A9&A10	(red & silvery) plastic & black rubber (on the metal handle)
A10	Black rubber (on the metal handle)
A11&A12&A13	Black plastic plug & black plastic (silvery plastic below) & Black plastic of air nozzle (paper bag inner)

Test item	Test Number	MDL	Test Result	Maximum permissible limit	Conclusion
<b>Lead (Pb)</b>	A2&A3&A4 ▲	5	917	500	FAIL
	A2	5	N.D.	500	PASS
	*A3	5	N.D.	500	PASS
	A4	5	N.D.	500	PASS
	A5&A6&A7 ▲	5	N.D.	500	PASS
	A8&A9&A10 ▲	5	131	500	PASS
	A10	5	N.D.	500	PASS
	A11&A12&A13 ▲	5	16	500	PASS

**Note:**

- 1) MDL=Method Detection Limit.
- 2) N.D. = not detected, less than MDL.
- 3) "▲" = This data is obtained from composite testing on more than one materials or shapes, it is possible that result obtained from individual testing on any one of the materials or shapes is substantially higher. Please be cautious when using this data for compliance evaluation.
- 4) "\*" = As specified by client ,the retest result is based on the new sample.

**Zhejiang RTS Test Co., LTD.**

Phone: +86(0)579-85640080  
Email: [ruiyi-8@zj-rt.com](mailto:ruiyi-8@zj-rt.com)  
<http://www.irtslab.cn>  
浙江省义乌市稠江街道英才创业园B区7幢2-4层.  
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**B. Total cadmium(Cd) content:** (Unit: mg/kg)

Entry 23 of Commission Regulation (EU) No 835/2012 Amending Annex XVII of REACH Regulation (EC)No 1907/2006 .

**Test method:** RTS-ZY-008 As per Metal- CPSC-CH-E1001-08.3; Nonmetal- CPSC-CH-E1002-08.3 or Surface coating- CPSC-CH-E1003-09.1, Was analyzed by flame atomic absorption spectrometry(AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Number	Item/ component description(s)
A1	Transparent film
A2&A3&A4	Black wire sheath & rubber mat (air pump bottom) & transparent lid (water meter part)
A5&A6&A7	Black plastic of water meter & black plastic of air nozzle & black plastic of motor body
A8&A9&A10	(red & silvery) plastic & black rubber (on the metal handle)
A10	Black rubber (on the metal handle)
A11&A12&A13	Black plastic plug & black plastic (silvery plastic below) & Black plastic of air nozzle (paper bag inner)

Test item	Test Number	MDL	Test Result	Maximum permissible limit	Conclusion
Cadmium (Cd)	A1	5	N.D.	100	PASS
	A2&A3&A4▲	5	N.D.	100	PASS
	A5&A6&A7▲	5	N.D.	100	PASS
	A8&A9&A10▲	5	N.D.	100	PASS
	A10	5	N.D.	100	PASS
	A11&A12&A13▲	5	9	100	PASS

**Note:**

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**C1. Phthalates Content:** (Unit: mg/kg)

Entry 51&amp;52 of Commission Regulation (EU) 2018/2005 Amending Annex XVII of REACH Regulation (EC) No 1907/2006.

**Test method:** With reference to EN 14372:2004-6.3.2, was analyzed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Number	Item/ component description(s)
A2&A3&A4	Black wire sheath & rubber mat (air pump bottom) & transparent lid (water meter part)
A5&A6&A7	Black plastic of water meter & black plastic of air nozzle & black plastic of motor body
A8&A9&A10	(red & silvery) plastic & black rubber (on the metal handle)
A11&A12&A13	Black plastic plug & black plastic (silvery plastic below) & Black plastic of air nozzle (paper bag inner)

Test Item(s)	CAS No.	Results				MDL	Limit value
		A2&A3&A4▲	A5&A6&A7▲	A8&A9&A10▲	A11&A12&A13▲		
Dibutyl Phthalate(DBP)	84-74-2	8635	N.D.	N.D.	N.D.	50	-
Benzylbutyl Phthalate(BBP)	85-68-7	N.D.	N.D.	N.D.	N.D.	50	-
Bis-(2-ethylhexyl)Phthalate(DEHP)	117-81-7	9534	N.D.	>10000	N.D.	50	-
Diisobutyl phthalate (DIBP)	84-69-5	N.D.	N.D.	N.D.	N.D.	50	-
Total(DBP+BBP+DEHP+DIBP)		>10000	N.D.	>10000	N.D.	-	1000
Di-n-octyl Phthalate(DNOP)	117-84-0	N.D.	N.D.	N.D.	N.D.	50	-
Diisodecyl Phthalate(DIDP)	26761-40-0 & 68515-49-1	717	N.D.	N.D.	N.D.	50	-
Di-iso-nonyl Phthalate(DINP)	28553-12-0 & 68515-48-0	>10000	100	N.D.	N.D.	50	-
Total(DNOP+DIDP+DINP)		>10000	100	N.D.	N.D.	-	1000
<b>Conclusion:</b>		FAIL	PASS	FAIL	PASS	-	-

**Note:**

1) N.D. = not detected, less than MDL.

2) MDL = Method Detection Limit.

3) "▲" = This data is obtained from composite testing on more than one materials or shapes, it is possible that result obtained from individual testing on any one of the materials or shapes is substantially higher. Please be cautious when using this data for compliance evaluation.



**C2. Phthalates Content:** (Unit: mg/kg)

Entry 51&amp;52 of Commission Regulation (EU) 2018/2005 Amending Annex XVII of REACH Regulation (EC) No 1907/2006.

**Test method:** With reference to EN 14372:2004-6.3.2, was analyzed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Number	Item/ component description(s)
A2	Black wire sheath
A4	Transparent lid (water meter part)
A8	Red plastic
A9	Silvery plastic

Test Item(s)	CAS No.	Results				MDL	Limit value
		A2	A4	A8	A9		
Dibutyl Phthalate(DBP)	84-74-2	N.D.	N.D.	N.D.	N.D.	50	-
Benzylbutyl Phthalate(BBP)	85-68-7	N.D.	N.D.	N.D.	N.D.	50	-
Bis-(2-ethylhexyl)Phthalate(DEHP)	117-81-7	N.D.	N.D.	N.D.	N.D.	50	-
Diisobutyl phthalate (DIBP)	84-69-5	N.D.	N.D.	N.D.	N.D.	50	-
Total(DBP+BBP+DEHP+DIBP)		N.D.	N.D.	N.D.	N.D.	-	1000
Di-n-octyl Phthalate(DNOP)	117-84-0	N.D.	N.D.	N.D.	N.D.	50	-
Diisodecyl Phthalate(DIDP)	26761-40-0 & 68515-49-1	N.D.	N.D.	N.D.	N.D.	50	-
Di-iso-nonyl Phthalate(DINP)	28553-12-0 & 68515-48-0	N.D.	N.D.	N.D.	N.D.	50	-
Total(DNOP+DIDP+DINP)		N.D.	N.D.	N.D.	N.D.	-	1000
<b>Conclusion:</b>		PASS	PASS	PASS	PASS	-	-

**Note:**

1) N.D. = not detected, less than MDL.

2) MDL = Method Detection Limit.

3)“▲” = This data is obtained from composite testing on more than one materials or shapes, it is possible that result obtained from individual testing on any one of the materials or shapes is substantially higher. Please be cautious when using this data for compliance evaluation.



**C3. Phthalates Content:** (Unit: mg/kg)

Entry 51&52 of Commission Regulation (EU) 2018/2005 Amending Annex XVII of REACH Regulation (EC) No 1907/2006.

**Test method:** With reference to EN 14372:2004-6.3.2, was analyzed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Number	Item/ component description(s)
A3	Rubber mat (air pump bottom)
A10	Black rubber (on the metal handle)

Test Item(s)	CAS No.	Results		MDL	Limit value
		A3	A10		
Dibutyl Phthalate(DBP)	84-74-2	N.D.	N.D.	50	-
Benzylbutyl Phthalate(BBP)	85-68-7	N.D.	N.D.	50	-
Bis-(2-ethylhexyl)Phthalate(DEHP)	117-81-7	N.D.	102	50	-
Diisobutyl phthalate (DIBP)	84-69-5	N.D.	N.D.	50	-
Total(DBP+BBP+DEHP+DIBP)		N.D.	102	-	1000
Di-n-octyl Phthalate(DNOP)	117-84-0	N.D.	N.D.	50	-
Diisodecyl Phthalate(DIDP)	26761-40-0 & 68515-49-1	N.D.	N.D.	50	-
Di-iso-nonyl Phthalate(DINP)	28553-12-0 & 68515-48-0	N.D.	N.D.	50	-
Total(DNOP+DIDP+DINP)		N.D.	N.D.	-	1000
<b>Conclusion:</b>		PASS	PASS	-	-

**Note:**

1) N.D. = not detected, less than MDL.

2) MDL = Method Detection Limit.

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**D1. PAHs Content:** (Unit: mg/kg)

Entry 50 of Commission Regulation (EU) No 1272/2013 amending Annex XVII of REACH Regulation (EC) No 1907/2006.

**Test method:**

With reference to AfPS GS 2019:01 PAK, analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

Test Number	Item/ component description(s)
A2&A3&A4	Black wire sheath & rubber mat (air pump bottom) & transparent lid (water meter part)
A5&A6&A7	Black plastic of water meter & black plastic of air nozzle & black plastic of motor body
A8&A9&A10	(red & black) plastic & black rubber (on the metal handle)
A11&A12&A13	Black plastic plug & black plastic (silvery plastic below) & Black plastic of air nozzle (paper bag inner)

Test Item(s)	CAS No.	MDL	Test Results				Limit (see remark) Category 1
			A2&A3 &A4 ▲	A5&A6 &A7 ▲	A8&A9 &A10 ▲	A11&A12 &A13 ▲	
Benzo[a]anthracene(BaA)	[56-55-3]	0.2	103.1	N.D.	N.D.	N.D.	1.0
Chrysene(Chr)	[218-01-9]	0.2	21.6	N.D.	N.D.	N.D.	1.0
Benzo[b]fluoranthene(BbFA)	[205-99-2]	0.2	0.8	N.D.	N.D.	N.D.	1.0
Benzo[j]fluoranthene(BjFA)	[205-82-3]	0.2	0.8	N.D.	N.D.	N.D.	1.0
Benzo[k]fluoranthene(BkFA)	[207-08-9]	0.2	0.8	N.D.	N.D.	N.D.	1.0
Benzo[a]pyrene(BaP)	[50-32-8]	0.2	17.9	N.D.	N.D.	N.D.	1.0
Benzo[e]pyrene(BeP)	[192-97-2]	0.2	26.5	N.D.	N.D.	N.D.	1.0
Dibenzo[a,h]anthracene(DBahA)	[53-70-3]	0.2	2.8	N.D.	N.D.	N.D.	1.0

**Note :**

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**Remark:****Category 1:**

Articles placed on the market for supply to the general public, such articles include amongst others:

- 1) Sport equipment such as bicycles, golf clubs, racquets
- 2) Household utensils, trolleys, walking frames
- 3) Tools for domestic use
- 4) Clothing, footwear, gloves and sportswear
- 5) Watch-straps, wrist-bands, masks, head-bands

**Category2:**

Toys, including activity toys, and childcare articles

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Phone: +86(0)579-85640080  
Email: [ruiyi-8@zj-rt.com](mailto:ruiyi-8@zj-rt.com)  
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**D2. PAHs Content:** (Unit: mg/kg)

Entry 50 of Commission Regulation (EU) No 1272/2013 amending Annex XVII of REACH Regulation (EC) No 1907/2006.

**Test method:**

With reference to AfPS GS 2019:01 PAK, analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

Test Number	Item/ component description(s)
A2	Black wire sheath
A3	Rubber mat (air pump bottom)
A4	Transparent lid (water meter part)
A10	Black rubber (on the metal handle)

Test Item(s)	CAS No.	MDL	Test Results				Limit (see remark) Category 1
			A2	A3	A4	A10	
Benzo[a]anthracene(BaA)	[56-55-3]	0.2	N.D.	N.D.	N.D.	N.D.	1.0
Chrysene(Chr)	[218-01-9]	0.2	N.D.	N.D.	N.D.	N.D.	1.0
Benzo[b]fluoranthene(BbFA)	[205-99-2]	0.2	N.D.	N.D.	N.D.	N.D.	1.0
Benzo[j]fluoranthene(BjFA)	[205-82-3]	0.2	N.D.	N.D.	N.D.	N.D.	1.0
Benzo[k]fluoranthene(BkFA)	[207-08-9]	0.2	N.D.	N.D.	N.D.	N.D.	1.0
Benzo[a]pyrene(BaP)	[50-32-8]	0.2	N.D.	N.D.	N.D.	N.D.	1.0
Benzo[e]pyrene(BeP)	[192-97-2]	0.2	N.D.	N.D.	N.D.	N.D.	1.0
Dibenzo[a,h]anthracene(DBahA)	[53-70-3]	0.2	N.D.	N.D.	N.D.	N.D.	1.0

**Note :**

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**Remark:****Category 1:**

Articles placed on the market for supply to the general public, such articles include amongst others:

- 1) Sport equipment such as bicycles, golf clubs, racquets
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- 3) Tools for domestic use
- 4) Clothing, footwear, gloves and sportswear
- 5) Watch-straps, wrist-bands, masks, head-bands

**Category2:**

Toys, including activity toys, and childcare articles

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<http://www.irtslab.cn>  
浙江省义乌市稠江街道英才创业园B区7幢2-4层,  
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**E. AZO-dyes content test:** (Unit: mg/kg)

Entry 43 of Regulation (EC) No 552/2009 and (EU) No 126/2013 amending Annex XVII of REACH Regulation (EC) No 1907/2006.

**Test Method:** With reference to EN ISO 14362-1:2017 & EN ISO 14362-3:2017; Analysis was preformed by GC-MS/HPLC-DAD.

Test Number	Item/ component description(s)
A14	Braided rope of tube
A15	Black non-woven fabric bag

Test Items		MDL	Limit	Test Result	
Prohibitive aromatic amines	CAS No.			A14	A15
1. o-Toluidine/2-aminotoluene	95-53-4	5	30	N.D.	N.D.
2. 2,4-Dimethylaniline,	95-68-1	5	30	N.D.	N.D.
3. 2,6-Dimethylaniline,	87-62-7	5	30	N.D.	N.D.
4. o-Anisidine/2-Methoxyaniline,	90-04-0	5	30	N.D.	N.D.
5. P-chloranilin/4-Chloroaniline,	106-47-8	5	30	N.D.	N.D.
6. 2-Methoxy-5-methylaniline,	120-71-8	5	30	N.D.	N.D.
7. 2,4,5-Trimethylaniline,	137-17-7	5	30	N.D.	N.D.
8. 4-Chloro-2-methylaniline,	95-69-2	5	30	N.D.	N.D.
9. 2,4-Diaminotoluene/4-methyl-m-phenylenediamine	95-80-7	5	30	N.D.	N.D.
10. 2,4-Diaminoanisoile/4-methoxy-m-phenylenediamine	615-05-4	5	30	N.D.	N.D.
11. 2-Naphthylamine,	91-59-8	5	30	N.D.	N.D.
12. 2-Amino-4-nitrotoluene,	99-55-8	5	30	N.D.	N.D.
13. 4-Aminobiphenyl/xenylamine/Biphenyl-4-ylamine	92-67-1	5	30	N.D.	N.D.
14. 4-Aminoazobenzene,	60-09-3	5	30	N.D.	N.D.
15. 4, 4'-oxydianiline	101-80-4	5	30	N.D.	N.D.
16. Benzidine,	92-87-5	5	30	N.D.	N.D.
17. 4,4-Diaminodiphenylmethane/4,4-methylenedianiline,	101-77-9	5	30	N.D.	N.D.
18. 4'-Amino-2,3'-dimethylazobenzene/ 4-o-tolylazo-o-toluidine/o-Aminoazotoluene,	97-56-3	5	30	N.D.	N.D.
19. 3,3'-Dimethy-4,4'-diaminodipenylmethane/ 4,4-mcthylenedi-o-toluidine,	838-88-0	5	30	N.D.	N.D.
20. 3,3-Dimethylbenzidine/4,4'-bi-o-Toluidine,	119-93-7	5	30	N.D.	N.D.
21. 4,4'-Thiodianiline,	139-65-1	5	30	N.D.	N.D.
22. 3,3'-Dichlorobenzidine/ 3,3'-Dichlorobiphenyl-4,4'-ylenediamine,	91-94-1	5	30	N.D.	N.D.
23. 4,4'-Methylene-bis(2-chloroaniline)/ 2,2'-dichloro-4,4'methylene-dianiline,	101-14-4	5	30	N.D.	N.D.
24. 3,3'-Dimethoxybenzidine/o-dianisidine,	119-90-4	5	30	N.D.	N.D.

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Phone: +86(0)579-85640080

Email: [ruiyi-8@zj-rt.com](mailto:ruiyi-8@zj-rt.com)<http://www.rtslab.cn>浙江省义乌市稠江街道英才创业园B区7幢2-4层,  
2-4/f, Building 7, Block B, Ying cai Business Park,  
Choujiang Street, Yiwu, Zhejiang.

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**Note:**

- 1) 1mg/kg = 0.0001% = mass percent.
- 2) N.D. = not detected, less than MDL.
- 3) MDL = Method Detection Limit.
- 4) "▲" = This data is obtained from composite testing on more than one materials or shapes, it is possible that result obtained from individual testing on any one of the materials or shapes is substantially higher. Please be cautious when using this data for compliance evaluation.

**Remark:**

- 1) In case polyurethane materials are used, e.g. PU foams and coating and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned AZO colorant.
- 2) In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned AZO colorants but from e.g. a chemical fixing agent.
- 3) The EN ISO 14362-1:2017 methods will enable further cleavage of 4-Aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine, therefore, the test method of EN ISO 14362-3:2017 was employed to verify the presence of 4-Aminoazobenzene.

### F. <sup>△</sup>Organotin Compounds Content

Entry 20 of Regulation (EC) No 552/2009 and 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006.

**Test method:** With reference to ISO 17353:2004, Analysis was performed by GC-MS.

Test Number	Item/ component description(s)
A2&A3&A4	Black wire sheath & rubber mat (air pump bottom) & transparent lid (water meter part)
A5&A6&A7	Black plastic of water meter & black plastic of air nozzle & black plastic of motor body
A8&A9&A10	(red & black) plastic & black rubber (on the metal handle)
A11&A12&A13	Black plastic plug & black plastic (silvery plastic below) & Black plastic of air nozzle (paper bag inner)
A3&A10	Rubber mat (air pump bottom) & black rubber (on the metal handle)

Test item(s)	Unit	Test Results				
		A2&A3&A4 ▲	A5&A6&A7 ▲	A8&A9&A1 0▲	A11&A12& A13▲	A3&A10▲
Sum of all tri-substituted organotin compounds (Refer to Appendix)	%	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyltin compounds (DBT)	%	N.D.	N.D.	N.D.	N.D.	N.D.
dioctyltin compounds (DOT)	%	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion:	-	PASS	PASS	PASS	PASS	PASS

Maximum Allowable Limit: (See Comment For The List Of Sample Type)	Type I	Tri-substituted organotin compounds: 0.1% by weight of tin (Sum)
	Type II	DBT: 0.1% by weight of tin
	Type III	DOT: 0.1% by weight of tin

#### Note:

1) N.D. = not detected, Detection limit: Each 0.01%.

2) “▲” = This data is obtained from composite testing on more than one materials or shapes, it is possible that result obtained from individual testing on any one of the materials or shapes is substantially higher. Please be cautious when using this data for compliance evaluation.

#### APPENDIX:

List of Organotin Compounds:			
Type	Name of Analytes	Type	Name of Analytes
I	Tri-substituted organotin compounds Tripropyltin (TPT) Tributyltin (TBT) Trioctyltin (TOT) Triphenyltin (TPhT) Tricyclohexyltin (TcyT)	III	Dioctyltin (DOT)
II	Dibutyltin (DBT)	-	-



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G.<sup>Δ</sup>EU No.143/2011 (Annex XIV of EC No.1907/2006), & SVHCs in candidate list, by European Chemical Agency (ECHA):(Unit: %)

No.	Substance name(s)	CAS number	RL	Result		Classification 【Appendix A】
				A2~A14	A16~A25	
1	Anthracene	120-12-7	0.050	N.D.	N.D.	PBT
2	Benzyl butyl phthalate (BBP)	85-68-7	0.050	N.D.	N.D.	TRC2
3	Dibutyl phthalate (DBP)	84-74-2	0.050	0.175	N.D.	TRC2
4	Bis(2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	0.050	0.929	N.D.	TRC2
5	HBCDD(α- HBCDD, β- HBCDD, γ- HBCDD,)	25637-99-4and3 194-55-6(134237 -51-7.134237-50- 6.134237-52-8)	0.050	N.D.	N.D.	PBT
6	4,4'-Diaminodiphenylmethane(MDA)	101-77-9	0.050	N.D.	N.D.	CC2
7	Alkanes,C10-13,chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	0.050	N.D.	N.D.	PBT; vPvB
8	Musk xylene	81-15-2	0.050	N.D.	N.D.	vPvB
9	Triethyl arsenate	15606-95-8	0.005	N.D.	N.D.	CC1
10	Bis(tributyltin) oxide (TBTO)	56-35-9	0.050	N.D.	N.D.	PBT
11	Cobalt dichloride	7646-79-9	0.005	N.D.	N.D.	CC2;TRC2
12	Diarsenic pentaoxide	1303-28-2	0.005	N.D.	N.D.	CC1
13	Diarsenic trioxide	1327-53-3	0.005	N.D.	N.D.	CC1
14	Sodium dichromate dehydrate	7789-12-0 10588-01-9	0.005	N.D.	N.D.	CC2; MC2;TRC2
15	Lead hydrogen arsenate	7784-40-9	0.005	N.D.	N.D.	CC1;TRC1
16	2,4-Dinitrotoluene(2,4-DNT)	121-14-2	0.050	N.D.	N.D.	CC2
17	Anthracene oil	90640-80-5	0.050	N.D.	N.D.	PBT;vPvB;CC2.
18	Anthracene oil, anthracene paste distrn. lights	91995-17-4		N.D.	N.D.	PBT;vPvB;CC2;MC 2
19	Anthracene oil, anthracene paste anthracene fraction	91995-15-2		N.D.	N.D.	PBT;vPvB;CC2;MC 2
20	Anthracene oil, anthracene-low	90640-82-7		N.D.	N.D.	PBT;vPvB;CC2;MC 2
21	Anthracene oil, anthracene paste	90640-81-6	0.050	N.D.	N.D.	PBT;vPvB;CC2;MC

**Zhejiang RTS Test Co., LTD.**

Phone: +86(0)579-85640080

Email: [ruiyi-8@zj-rt.com](mailto:ruiyi-8@zj-rt.com)<http://www.irtslab.cn>浙江省义乌市稠江街道英才创业园B区7幢2-4层,  
2-4/f, Building 7, Block B, Ying cai Business Park,  
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No.	Substance name(s)	CAS number	RL	Result		Classification 【Appendix A】
				A2~A14	A16~A25	
						2
22	Diisobutyl phthalate (DIBP)	84-69-5	0.050	N.D.	N.D.	TRC2
23	Aluminosilicate Refractory Ceramic Fibres (Al-RCF)*	---	0.005	N.D.	N.D.	CC2
24	Zirconia Aluminosilicate Refractory Ceramic Fibres (ZrAl-RCF)	---	0.005	N.D.	N.D.	CC2
25	Lead chromate	7758-97-6	0.005	N.D.	N.D.	CC2;TRC1
26	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	0.005	N.D.	N.D.	CC2;TRC1
27	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	0.005	N.D.	N.D.	CC2;TRC1
28	Tris(2-chloroethyl) phosphate(TCEP)	115-96-8	0.050	N.D.	N.D.	TRC2
29	Pitch, coal tar, high temp	65996-93-2	0.050	N.D.	N.D.	PBT; CC2.
30	Acrylamide	79-06-1	0.050	N.D.	N.D.	CC2.MC2
31	Trichloroethylene	79-01-6	0.050	N.D.	N.D.	CC2
32	Boric acid	10043-35-3/ 11113-50-1	0.005	N.D.	N.D.	TRC2
33	Disodium tetraborate, anhydrous	1330-43-4 12179-04-3 1303-96-4	0.005	N.D.	N.D.	TRC2
34	Tetraborate disodium heptaoxide, hydrou	12267-73-1	0.005	N.D.	N.D.	TRC2
35	Sodium chromate	7775-11-3	0.005	N.D.	N.D.	CC2; MC2;TRC2
36	Potassium chromate	7789-00-6	0.005	N.D.	N.D.	CC2;MC2
37	Potassium Dichromate	7778-50-9	0.005	N.D.	N.D.	CC2; MC2;TRC2
38	Ammonium dichromate	7789-09-5	0.005	N.D.	N.D.	CC2; MC2;TRC2
39	Cobalt(II) sulphate	10124-43-3	0.005	N.D.	N.D.	CC2;TRC2
40	Cobalt(II) dinitrate	10141-05-6	0.005	N.D.	N.D.	CC2;TRC2
41	Cobalt(II) carbonate	513-79-1	0.005	N.D.	N.D.	CC2;TRC2
42	Cobalt(II) diacetate	71-48-7	0.005	N.D.	N.D.	CC2;TRC2
43	2-Methoxyethanol	109-86-4	0.050	N.D.	N.D.	TRC2

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Phone: +86(0)579-85640080

Email: [ruiyi-8@zj-rt.com](mailto:ruiyi-8@zj-rt.com)<http://www.irtslab.cn>浙江省义乌市稠江街道英才创业园B区7幢2-4层,  
2-4/f, Building 7, Block B, Ying cai Business Park,  
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					A2~A14	A16~A25	
44	2-Ethoxyethanol		110-80-5	0.050	N.D.	N.D.	TRC2
45	Chromium trioxide		1333-82-0	0.005	N.D.	N.D.	CC1;MC2
46	Chromium hemitrioxide and acid from it's oligomer	Chromic acid	7738-94-5 13530-68-2	0.005	N.D.	N.D.	CC2
		Dichromic acid			N.D.	N.D.	CC2
		Oligomers of chromic acid and dichromic acid			N.D.	N.D.	CC2
47	2-ethoxyethyl acetate		111-15-9	0.050	N.D.	N.D.	TRC2
48	Strontium chromate		7789-06-2	0.005	N.D.	N.D.	CC2
49	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear alkyl esters		68515-42-4	0.050	N.D.	N.D.	TRC2
50	Hydrazine		7803-57-8 302-01-2	0.050	N.D.	N.D.	CC2
51	1-methyl-2-pyrrolidone		872-50-4	0.050	N.D.	N.D.	TRC2
52	1,2,3-trichloropropane		96-18-4	0.050	N.D.	N.D.	CC2;TRC2
53	1,2-Benzenedicarboxylic acid, di- C6-8-branched alkyl esters, C7-rich		71888-89-6	0.050	N.D.	N.D.	TRC2
54	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclo hexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§		2580-56-5	0.050	N.D.	N.D.	CC2
55	4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-y lidene]dimethylammonium chloride (C.I. Basic Violet 3)§ .		548-62-9	0.050	N.D.	N.D.	CC2
56	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) .		112-49-2	0.050	N.D.	N.D.	TRC2
57	1,2-Dichloroethane .		107-06-2	0.050	N.D.	N.D.	CC2
58	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)		110-71-4	0.050	N.D.	N.D.	TRC2
59	2,2'-dichloro-4,4'-methylenedianiline .		101-14-4	0.050	N.D.	N.D.	CC2
60	2-Methoxyaniline; o-Anisidine .		90-04-0	0.050	N.D.	N.D.	CC2
61	4-(1,1,3,3-tetramethylbutyl)phenol .		140-66-9	0.050	N.D.	N.D.	Equivalent concern
62	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone) .		90-94-8	0.050	N.D.	N.D.	CC2

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Phone: +86(0)579-85640080

Email: [ruiyi-8@zj-rt.com](mailto:ruiyi-8@zj-rt.com)<http://www.rtslab.cn>浙江省义乌市稠江街道英才创业园B区7幢2-4层,  
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				A2~A14	A16~A25	
63	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§ .	561-41-1	0.050	N.D.	N.D.	CC2
64	Aluminosilicate Refractory Ceramic Fibres*▲.	650-017-00-8 (Index no.).	0.005	N.D.	N.D.	CC2
65	Arsenic acid*.	7778-39-4	0.005	N.D.	N.D.	CC1
66	Bis(2-methoxyethyl) ether .	111-96-6	0.050	N.D.	N.D.	TRC2
67	Bis(2-methoxyethyl) phthalate .	117-82-8	0.050	N.D.	N.D.	TRC2
68	Calcium arsenate* .	7778-44-1	0.005	N.D.	N.D.	CC1
69	Diarsenic pentaoxide*	1303-86-2	0.005	N.D.	N.D.	CC1
70	Dichromium tris(chromate) * .	24613-89-6	0.005	N.D.	N.D.	CC2
71	Formaldehyde, oligomeric reaction products with aniline .	25214-70-4	0.050	N.D.	N.D.	CC2
72	Formamide.	75-12-7	0.050	N.D.	N.D.	TRC2
73	Lead diazide*.	13424-46-9	0.005	N.D.	N.D.	TRC1
74	Lead dipicrate*.	6477-64-1	0.005	N.D.	N.D.	TRC1
75	Lead styphnate* .	15245-44-0	0.005	N.D.	N.D.	TRC1
76	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005	N.D.	N.D.	TRC2
77	N,N,N',N'-tetramethyl-4,4'-methylenedia niline (Michler's base) .	101-61-1	0.050	N.D.	N.D.	CC2
78	N,N-dimethylacetamide .	127-19-5	0.050	N.D.	N.D.	TRC2
79	Pentazinc chromate octahydroxide* .	49663-84-5	0.005	N.D.	N.D.	CC1
80	Phenolphthalein.	77-09-8	0.050	N.D.	N.D.	CC2
81	Potassium hydroxyoctaoxodizincatedichromate* .	11103-86-9	0.005	N.D.	N.D.	CC1
82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) .	2451-62-9	0.050	N.D.	N.D.	MC2
83	Trilead diarsenate* .	3687-31-8	0.005	N.D.	N.D.	CC1.TRC1
84	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)§	6786-83-0	0.050	N.D.	N.D.	CC2
85	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	0.050	N.D.	N.D.	MC2
86	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050	N.D.	N.D.	PBT
87	Pentacosfluorotridecanoic acid	72629-94-8	0.050	N.D.	N.D.	PBT

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Phone: +86(0)579-85640080

Email: [ruiyi-8@zj-rt.com](mailto:ruiyi-8@zj-rt.com)<http://www.rtslab.cn>浙江省义乌市稠江街道英才创业园B区7幢2-4层,  
2-4/f, Building 7, Block B, Yingcai Business Park,  
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				A2~A14	A16~A25	
88	Tricosafuorododecanoic acid	307-55-1	0.050	N.D.	N.D.	PBT
89	Henicosafuoroundecanoic acid	2058-94-8	0.050	N.D.	N.D.	PBT
90	Heptacosafuorotetradecanoic acid	376-06-7	0.050	N.D.	N.D.	PBT
91	4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated- covering well-defined substances and UVCB substances, polymers and homologues	-	0.050	N.D.	N.D.	Equivalent concern
92	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	-	0.050	N.D.	N.D.	Equivalent concern
93	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050	N.D.	N.D.	Equivalent concern
94	Cyclohexane-1,2-dicarboxylic anhydride (HHPA), cis-cyclohexane-1,2-Dicarboxylic anhydride, trans-cyclohexane-1,2- dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7, 13149-00-3, 14166-21-3)	0.050	N.D.	N.D.	Equivalent concern
95	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	0.050	N.D.	N.D.	Equivalent concern
96	Methoxy acetic acid	625-45-6	0.050	N.D.	N.D.	TRC2
97	1,2-Benzenedicarboxylic acid, dipentyle ster, branched and linear	84777-06-0	0.050	N.D.	N.D.	TRC2
98	Diisopentylphthalate	605-50-5	0.050	N.D.	N.D.	TRC2
99	N-pentyl-isopentylphthalate	776297-69-9	0.005	N.D.	N.D.	TRC2
100	1,2-Diethoxyethane	629-14-1	0.050	N.D.	N.D.	TRC2
101	N,N-dimethylformamide; dimethyl formamide	68-12-2	0.010	N.D.	N.D.	TRC2
102	Dibutyltin dichloride (DBTC)	683-18-1	0.050	N.D.	N.D.	TRC2

**Zhejiang RTS Test Co., LTD.**

Phone: +86(0)579-85640080

Email: [ruiyi-8@zj-rt.com](mailto:ruiyi-8@zj-rt.com)<http://www.rtslab.cn>浙江省义乌市稠江街道英才创业园B区7幢2-4层,  
2-4/f, Building 7, Block B, Ying cai Business Park,  
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				A2~A14	A16~A25	
103	Acetic acid, lead salt, basic***	51404-69-4	0.005	N.D.	N.D.	TRC1
104	Trilead bis(carbonate) dihydroxide (basic lead carbonate)***	1319-46-6	0.005	N.D.	N.D.	TRC1
105	Lead oxide sulfate***	12036-76-9	0.005	N.D.	N.D.	TRC1
106	[Phthalato(2-)] dioxotrilead***	69011-06-9	0.005	N.D.	N.D.	TRC1
107	Dioxobis(stearato) trilead***	12578-12-0	0.005	N.D.	N.D.	TRC1
108	Fatty acids, C16-18, lead salts***	91031-62-8	0.005	N.D.	N.D.	TRC1
109	Lead cyanamidate***	20837-86-9	0.005	N.D.	N.D.	TRC1
110	Lead dinitrate***	10099-74-8	0.005	N.D.	N.D.	TRC1
111	Lead oxide (lead monoxide)***	1317-36-8	0.005	N.D.	N.D.	TRC1
112	Lead tetroxide (orange lead)***	1314-41-6	0.005	N.D.	N.D.	TRC1
113	Pentalead tetraoxide sulphate***	12065-90-6	0.005	N.D.	N.D.	TRC1
114	Silicic acid, lead salt***	11120-22-2	0.005	N.D.	N.D.	TRC1
115	Sulfurous acid, lead salt, dibasic***	62229-08-7	0.005	N.D.	N.D.	TRC1
116	Tetraethyllead***	78-00-2	0.005	N.D.	N.D.	TRC1
117	Tetralead trioxide sulphate***	12202-17-4	0.005	N.D.	N.D.	TRC1
118	Lead bis(tetrafluoroborate)***	13814-96-5	0.005	N.D.	N.D.	TRC1
119	Lead titanium trioxide***	12060-00-3	0.005	N.D.	N.D.	TRC1
120	Lead Titanium Zirconium Oxide***	12626-81-2	0.005	N.D.	N.D.	TRC1
121	Pyrochlore, antimony lead yellow***	8012-00-8	0.005	N.D.	N.D.	TRC1
122	Trilead dioxide phosphonate***	12141-20-7	0.005	N.D.	N.D.	TRC1
123	Silicic acid, barium salt, lead-doped (※ 4)	68784-75-8	0.005	N.D.	N.D.	TRC1
124	Furan	110-00-9	0.050	N.D.	N.D.	CC2
125	Propylene oxide; 1,2-epoxypropane; methyloxiran e	75-56-9	0.050	N.D.	N.D.	CC2.MC2
126	Diethyl sulphate	64-67-5	0.050	N.D.	N.D.	CC2.MC2

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Email: [ruiyi-8@zj-rt.com](mailto:ruiyi-8@zj-rt.com)<http://www.irtslab.cn>浙江省义乌市稠江街道英才创业园B区7幢2-4层,  
2-4/f, Building 7, Block B, Ying cai Business Park,  
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				A2~A14	A16~A25	
127	Dimethyl sulphate	77-78-1	0.050	N.D.	N.D.	CC2
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050	N.D.	N.D.	TRC2
129	Dinoseb	88-85-7	0.050	N.D.	N.D.	TRC2
130	4,4'-methylenedi-o-toluidine	838-88-0	0.050	N.D.	N.D.	CC2
131	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	0.050	N.D.	N.D.	CC2
132	4-methyl-m-phenylenediamine (2,4-toluenediamine)	95-80-7	0.050	N.D.	N.D.	CC2
133	o-aminoazotoluene	97-56-3	0.050	N.D.	N.D.	CC2
134	o-Toluidine; 2-Aminotoluene	95-53-4	0.050	N.D.	N.D.	CC2
135	N-methylacetamide	79-16-3	0.050	N.D.	N.D.	TRC2
136	1-bromopropane	106-94-5	0.050	N.D.	N.D.	TRC2
137	Tris(2-chloroethyl) phosphate	115-96-8	0.050	N.D.	N.D.	TRC2
138	4-Aminobiphenyl	92-67-1	0.050	N.D.	N.D.	CC2
139	Cadmium	7440-43-9	0.005	N.D.	N.D.	CC2 Equivalent concern
140	Cadmium oxide	1306-19-0	0.005	N.D.	N.D.	CC2 Equivalent concern
141	Dipentyl phthalate (DPP)	131-18-0	0.050	N.D.	N.D.	TRC2 PBT
142	4-Nonylphenol, branched and linear, ethoxylated	/	0.050	N.D.	N.D.	TRC2 PBT
143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.050	N.D.	N.D.	TRC2 PBT
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050	N.D.	N.D.	TRC2 PBT
145	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050	N.D.	N.D.	CC1
146	Dihexyl phthalate	84-75-3	0.050	N.D.	N.D.	TRC2
147	Lead di(acetate)	301-04-2	0.005	N.D.	N.D.	TRC2
148	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050	N.D.	N.D.	TRC2

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Email: [ruiyi-8@zj-rt.com](mailto:ruiyi-8@zj-rt.com)<http://www.rtslab.cn>浙江省义乌市稠江街道英才创业园B区7幢2-4层,  
2-4/f, Building 7, Block B, Yingcai Business Park,  
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				A2~A14	A16~A25	
149	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	0.050	N.D.	N.D.	CC1
150	Trixylyl phosphate	25155-23-1	0.050	N.D.	N.D.	TRC2
151	Cadmium sulphide	1306-23-6	0.005	N.D.	N.D.	CC2 Equivalent concern
152	Cadmium chloride	10108-64-2	0.005	N.D.	N.D.	CC2 Equivalent concern
153	Sodium peroxometaborate	7632-04-4	0.005	N.D.	N.D.	TRC2
154	Sodium perborate; perboric acid, sodium salt	15120-21-5	0.005	N.D.	N.D.	TRC2
155	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050	N.D.	N.D.	TRC2
156	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-oxoe thyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	0.050	N.D.	N.D.	TRC2
157	Cadmium sulphate	10124-36-4 31119-53-6	0.005	N.D.	N.D.	TRC2 CC2 Equivalent concern
158	Cadmium fluoride	7790-79-6	0.005	N.D.	N.D.	TRC2 CC2 Equivalent concern
159	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.050	N.D.	N.D.	TRC2
160	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050	N.D.	N.D.	VPVB PBT
161	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050	N.D.	N.D.	VPVB PBT
162	1,2-benzenedicarboxylic acid, di-C6-10-alkylesters;1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5/ 68648-93-1	0.050	N.D.	N.D.	TRC2

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Email: [ruiyi-8@zj-rt.com](mailto:ruiyi-8@zj-rt.com)<http://www.rtslab.cn>浙江省义乌市稠江街道英才创业园B区7幢2-4层,  
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				A2~A14	A16~A25	
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	0.050	N.D.	N.D.	VPVB
164	Nitrobenzene	98-95-3	0.050	N.D.	N.D.	VPVB
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050	N.D.	N.D.	VPVB
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.050	N.D.	N.D.	VPVB
167	1,3-propanesultone	1120-71-4	0.050	N.D.	N.D.	VPVB
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1/ 21049-39-8/ 4149-60-4	0.050	N.D.	N.D.	PBT
169	Benzo[def]chrysene(Benzo[a]pyrene),	50-32-8	0.050	N.D.	N.D.	VPVB, PBT,CC1,MC2, TRC2
170	Perfluorohexane-1-sulphonic acid and its salts	-	0.050	N.D.	N.D.	VPVB (ARTICLE 57E)
171	4,4'-isopropylidenediphenol	80-05-7	0.050	N.D.	N.D.	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - human health)
172	4-heptylphenol, branched and linear	-	0.050	N.D.	N.D.	Endocrine disrupting properties (Article 57(f) - environment)
173	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Nonadecafluorodecanoic acid Decanoic acid, nonadecafluoro-, sodium salt Ammonium nonadecafluorodecanoate	335-76-2 3830-45-3 3108-42-7	0.050	N.D.	N.D.	Toxic for reproduction (Article 57c) PBT (Article 57 d)



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				A2~A14	A16~A25	
174	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050	N.D.	N.D.	Endocrine disrupting properties (Article 57(f) - environment)
175	Benz[a]anthracene	56-55-3, 1718-53-2	0.050	N.D.	N.D.	CC2PBT (Article 57d) vPvB (Article 57e)
176	Cadmium carbonate	513-78-0	0.005	N.D.	N.D.	CC1, MC1 Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
177	Cadmium hydroxide	21041-95-2	0.005	N.D.	N.D.	CC1, MC1 Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
178	Cadmium nitrate	10022-68-1 10325-94-7	0.005	N.D.	N.D.	CC1, MC1 Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
179	Chrysene	1719-03-5	0.050	N.D.	N.D.	CC1, MC1 Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
180	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	--	0.050	N.D.	N.D.	vPvB (Article 57e)
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	--	0.050	N.D.	N.D.	Endocrine disrupting properties (Article 57(f) - environment)

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				A2~A14	A16~A25	
	with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear (4-HPbl)					
182	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050	N.D.	N.D.	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - human health)
183	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride)	552-30-7	0.050	N.D.	N.D.	Respiratory sensitization properties (Article 57(f) - human health)
184	Terphenyl hydrogenated	61788-32-7	0.050	N.D.	N.D.	vPvB (Article 57e)
185	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050	N.D.	N.D.	PBT (Article 57d) vPvB (Article 57e)
186	Lead	7439-92-1	0.005	N.D.	N.D.	Toxic for reproduction (Article 57c)
187	Ethylenediamine	107-15-3	0.050	N.D.	N.D.	Respiratory sensitization properties (Article 57(f) - human health)
188	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050	N.D.	N.D.	PBT (Article 57d) vPvB (Article 57e)
189	Disodium octaborate	12008-41-2	0.005	N.D.	N.D.	Toxic for reproduction (Article 57c)
190	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050	N.D.	N.D.	PBT (Article 57d) vPvB (Article 57e)
191	Benzo[ghi]perylene (BPE)	191-24-2	0.050	N.D.	N.D.	PBT (Article 57d) vPvB (Article 57e)
192	2,2-bis(4'-hydroxyphenyl)-4-methylpent ane	6807-17-6	0.050	N.D.	N.D.	Toxic for reproduction (Article 57c)
193	Benzo[k]fluoranthene	207-08-9	0.050	N.D.	N.D.	Carcinogenic

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				A2~A14	A16~A25	
						(Article 57a) PBT (Article 57d) vPvB (Article 57e)
194	Fluoranthene	206-44-0	0.050	N.D.	N.D.	PBT (Article 57d) vPvB (Article 57e)
195	Phenanthrene	85-01-8	0.050	N.D.	N.D.	vPvB (Article 57e)
196	Pyrene	129-00-0	0.050	N.D.	N.D.	PBT (Article 57d) vPvB (Article 57e)
197	1,7,7-trimethyl-3-(phenylmethylene)-bicyclo-[2.2.1]heptan-2-one	15087-24-8	0.050	N.D.	N.D.	Endocrine disrupting properties (Article 57(f) - environment)
198	2-methoxyethyl acetate	110-49-6	0.050	N.D.	N.D.	Toxic for reproduction (Article 57c)
199	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	--	0.050	N.D.	N.D.	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)	--	0.050	N.D.	N.D.	Equivalent level of concern having probable serious effects to the environment and health
201	4-tert-butylphenol	98-54-4	0.050	N.D.	N.D.	Endocrine disrupting properties (Article 57(f) - environment)
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050	N.D.	N.D.	Toxic for reproduction (Article 57c)
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050	N.D.	N.D.	Toxic for reproduction (Article 57c)
204	Diisohexyl phthalate	71850-09-4	0.050	N.D.	N.D.	Toxic for reproduction (Article 57c)

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Email: [ruiyi-8@zj-rt.com](mailto:ruiyi-8@zj-rt.com)<http://www.irtslab.cn>浙江省义乌市稠江街道英才创业园B区7幢2-4层,  
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				A2~A14	A16~A25	
205	Perfluorobutane sulfonic acid (PFBS) and its salts	--	0.050	N.D.	N.D.	Endocrine disrupting properties (Article 57(f) - environment)
206	1-vinylimidazole	1072-63-5	0.050	N.D.	N.D.	Toxic for reproduction (Article 57c)
207	2-methylimidazole	693-98-1	0.050	N.D.	N.D.	Toxic for reproduction (Article 57c)
208	Dibutylbis(pentane-2,4-dionato-O,O) tin	22673-19-4	0.050	N.D.	N.D.	Toxic for reproduction (Article 57c)
209	Butyl 4-hydroxybenzoate	94-26-8	0.050	N.D.	N.D.	Endocrine disrupting properties (Article 57(f) - environment)
210	Bis(2-(2-Methoxyethoxy)ethyl) ether	143-24-8	0.050	N.D.	N.D.	Solvent/extraction agent. Toxic for reproduction (Article 57 (c))
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	-	0.050	N.D.	N.D.	Not registered under REACH. The mono-constituent form of the substance (dioctyltin dilaurate) is used as an additive in the production of plastics and rubber tyres. Toxic for reproduction (Article 57 (c))
212	1,4-dioxane	123-91-1	0.050	N.D.	N.D.	Carcinogenic (Article 57a) concern having probable serious effects to the

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No.	Substance name(s)	CAS number	RL	Result		Classification 【Appendix A】
				A2~A14	A16~A25	
						environment and health
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)	1522-92-5, 36483-57-5, 3296-90-0, 96-13-9	0.050	N.D.	N.D.	Carcinogenic (Article 57a)
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	75166-31-3, 80-54-6, 75166-30-2	0.050	N.D.	N.D.	Toxic for reproduction (Article 57c)
215	4,4'-(1-methylpropylidene)bisphenol	77-40-7	0.050	N.D.	N.D.	Endocrine Disrupting Properties (Article 57(f) - Human Health), Endocrine Disrupting Properties (Article 57(f) - Environment)
216	Glutaral	111-30-8	0.050	N.D.	N.D.	Respiratory Sensitization Properties (Article 57(f) - Human Health)
217	Medium-chain chlorinated paraffins (MCCP)	1372804-76-6, 85535-85-9, 198840-65-2	0.050	N.D.	N.D.	PBT (Article 57d) vPvB (Article 57e)
218	Orthoboric acid, sodium salt	25747-83-5, 22454-04-2, 14312-40-4, 1333-73-9, 13840-56-7, 14890-53-0	0.050	N.D.	N.D.	Toxic for reproduction (Article 57c)
219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	210555-94-5, 27459-10-5, 27147-75-7, 121158-58-5, 74499-35-7, 57427-55-1	0.050	N.D.	N.D.	Toxic for reproduction (Article 57c), Endocrine disrupting properties (Article 57(f) -

**Zhejiang RTS Test Co., LTD.**

Phone: +86(0)579-85640080

Email: [ruiyi-8@zj-rt.com](mailto:ruiyi-8@zj-rt.com)<http://www.irtslab.cn>浙江省义乌市稠江街道英才创业园B区7幢2-4层,  
2-4/f, Building 7, Block B, Ying cai Business Park,  
Choujiang Street, Yiwu, Zhejiang.

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No.	Substance name(s)	CAS number	RL	Result		Classification 【Appendix A】
				A2~A14	A16~A25	
						environment),Endocrine disrupting properties (Article 57(f) - human health)
220	tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050	N.D.	N.D.	Toxic for reproduction (Article 57c)
221	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	255881-94-8	0.050	N.D.	N.D.	PBT (Article 57d)
222	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	0.050	N.D.	N.D.	Toxic for reproduction (Article 57c)
223	( ± )-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)	1782069-81-1	0.050	N.D.	N.D.	Endocrine disrupting properties (Article 57(f) - human health)
	(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	95342-41-9	0.050	N.D.	N.D.	
	(1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-25-4	0.050	N.D.	N.D.	
	( ± )-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one	36861-47-9	0.050	N.D.	N.D.	
	(1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	741687-98-9	0.050	N.D.	N.D.	
	(1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-30-1	0.050	N.D.	N.D.	
	(1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-21-0	0.050	N.D.	N.D.	
224	N-(hydroxymethyl)acrylamide	924-42-5	0.050	N.D.	N.D.	Carcinogenic (Article 57a)

**Zhejiang RTS Test Co., LTD.**

Phone: +86(0)579-85640080

Email: [ruiyi-8@zj-rt.com](mailto:ruiyi-8@zj-rt.com)<http://www.irtslab.cn>浙江省义乌市稠江街道英才创业园B区7幢2-4层,  
2-4/f, Building 7, Block B, Ying cai Business Park,  
Choujiang Street, Yiwu, Zhejiang.

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No.	Substance name(s)	CAS number	RL	Result		Classification 【Appendix A】
				A2~A14	A16~A25	
						Mutagenic (Article 57b)
225	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	--	0.050	N.D.	N.D.	vPvB (Article 57e)
226	Perfluoroheptanoic acid and its salts	--	0.050	N.D.	N.D.	Toxic for reproduction (Article 57c) PBT (Article 57d) vPvB (Article 57e) Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health) Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)
227	Melamine	108-78-1	0.050	N.D.	N.D.	Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health) Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)
228	Isobutyl 4-hydroxybenzoate	4247-02-3	0.050	N.D.	N.D.	Endocrine disrupting properties (Article

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Phone: +86(0)579-85640080

Email: [ruiyi-8@zj-rt.com](mailto:ruiyi-8@zj-rt.com)<http://www.irtslab.cn>浙江省义乌市稠江街道英才创业园B区7幢2-4层,  
2-4/f, Building 7, Block B, Ying cai Business Park,  
Choujiang Street, Yiwu, Zhejiang.

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No.	Substance name(s)	CAS number	RL	Result		Classification 【Appendix A】
				A2~A14	A16~A25	
						57(f) - human health)
229	bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	--	0.050	N.D.	N.D.	vPvB (Article 57e)
230	Barium diboron tetraoxide	13701-59-2	0.050	N.D.	N.D.	Toxic for reproduction (Article 57c)
231	4,4'-sulphonyldiphenol	80-09-1	0.050	N.D.	N.D.	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)
232	2,2',6,6'-tetrabromo-4,4'-isopropylidene diphenol	79-94-7	0.050	N.D.	N.D.	Carcinogenic (Article 57a)
233	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	0.050	N.D.	N.D.	vPvB (Article 57e)
234	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.050	N.D.	N.D.	Toxic for reproduction (Article 57c)
235	Bis(4-chlorophenyl) sulphone	80-07-9	0.050	N.D.	N.D.	vPvB (Article 57e)

**Test method:** With reference to US EPA 3052+6010C. US EPA 3050, US EPA 8270D. ASTM D3421. IEC 62321:2008, EN 14372 etc. Analyzed by ICP-AES, UV-VIS, GC/MS, LC/MS, GC/FPD, LC/MS/DAD.

**Note:**

(1): RL = Reporting Limit. All RL are based on homogenous material

ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

(2):  $\Delta$ =CAS No. of diastereoisomers identified ( $\alpha$ -HBCDD,  $\beta$ -HBCDD,  $\gamma$ -HBCDD): 134237-50-6, 34237-51-7, 134237-52-8

(3): RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, sodium, chromium, chromium (VI), silicon, aluminum, zirconium, boron, potassium, strontium, zinc and calcium respectively), except molybdenum RL=0.0005%

(4): § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1)  $\geq 0.1\%$  (w/w) .

**Zhejiang RTS Test Co., LTD.**

Phone: +86(0)579-85640080

Email: [ruiyi-8@zj-rt.com](mailto:ruiyi-8@zj-rt.com)<http://www.irtslab.cn>浙江省义乌市稠江街道英才创业园B区7幢2-4层.  
2-4/f, Building 7, Block B, Yingcai Business Park,  
Choujiang Street, Yiwu, Zhejiang.

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(5): ▲ On Jun 18, 2012, ECHA consolidated two entries of aluminosilicate refractory ceramic fibres and two of zirconia aluminosilicate refractory ceramic fibres in the Candidate List of SVHC for authorization published in Jan 2010 and Dec 2011 into one entry for aluminosilicate refractory ceramic fibres and one for zirconia aluminosilicate refractory ceramic fibres.

(6): All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, so called CLP Regulation (Regulation (EC) No 1272/2008).

(7): In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.

8): When tested substances contain variable compounds, the test results are calculated based on main constituents of the representative compounds for the substances. The test results of the representative compounds are calculated based on the result of specified heavy metal elements.

#### Remarks:

1. The chemical analysis of 235 SVHC is performed by means of currently available analytical techniques in the list published by ECHA on June 14, 2023. shall refer to : <http://echa.europa.eu/web/guest/candidate-list-table>
2. In accordance with Regulation (EC) No 1907/2006, any producer or importer of 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) of the Regulation, if (a) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w).
3. Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the Name of that substance.
4. Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No.1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

**5. Concerning substance and preparation:**

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and No 790/2009, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as dangerous according Dangerous Preparations Directive 1999/45/EC or classified as hazardous under the CLP Regulation (EC) No 1272/2008, when their concentrations are equal to, or greater than, those defined in the Article 3(3) of 1999/45/EC or the lower values given in Part 3 of Annex VI of Regulation (EC) No. 1272/2008; or
- a mixture is not classified as dangerous under Directive 1999/45/EC, but contains either:
  - (a) a substance posing human health or environmental hazards in an individual concentration of  $\geq 1$  % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or  $\geq 0.2$  % by volume for gaseous mixtures; or
  - (b) a substance that is PBT, or vPvB in an individual concentration of  $\geq 0.1$  % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
  - (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of  $\geq 0.1$  % by weight for non-gaseous mixtures; or
  - (d) a substance for which there are Europe-wide workplace exposure limits.

**6.** If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.



## 【Appendix A】 :

<u>Classification</u>	<u>Definition under 67/548/EEC and regulation(EC)No 1907/2006</u>
<b>CC1</b> <b>(carcinogen category 1)</b>	Substances known to be carcinogenic to man, there is sufficient evidence to establish a causal association between human exposure to a substance and the development of cancer.
<b>CC2</b> <b>(carcinogen category 2)</b>	Substances which should be regarded as if they are carcinogenic to man, There is sufficient evidence to provide a strong presumption that human exposure to a substances may result in the development of cancer. Generally on the basis of: <ul style="list-style-type: none"><li>- appropriate long-term animal studies.</li><li>- other relevant information.</li></ul>
<b>MC1</b> <b>(Mutagen Category1)</b>	Substances known to be mutagenic to man, There is sufficient evidence to establish a causal association between human exposure to a substance and heritable genetic damage.
<b>MC2</b> <b>(Mutagen Category1)</b>	Substances which should be regarded as if they are mutagenic to man, There is sufficient evidence to provide a strong presumption that human exposure to a substances may result in the development of heritable genetic damage. Generally on the basis of: <ul style="list-style-type: none"><li>- appropriate animal studies.</li><li>- other relevant information.</li></ul>
<b>TRC1</b> <b>(Toxic to Reproduction category 1)</b>	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.
<b>TRC2</b> <b>(Toxic to Reproduction category 2)</b>	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 substances may result in impaired fertility, Generally on the basis of: <ul style="list-style-type: none"><li>- 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 non-specific consequence of the other toxic effects.</li><li>- Other relevant information.</li></ul> Substances which should be regarded as if they cause development toxicity to humans. there is sufficient evidence to provide a strong presumption that human exposure to the substances may result in development toxicity, Generally on the basis of: <ul style="list-style-type: none"><li>- 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 is not a secondary non-specific consequence of the other toxic effects.</li><li>- Other relevant information.</li></ul>
<b>PBT &amp; vPvB</b>	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.

----- End of Report -----

**Zhejiang RTS Test Co., LTD.**

Phone: +86(0)579-85640080

Email: [ruiyi-8@zj-rt.com](mailto:ruiyi-8@zj-rt.com)<http://www.irtslab.cn>浙江省义乌市稠江街道英才创业园B区7幢2-4层,  
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