



TEST REPORT

Report No.: CCI230300594EN-2

Report Date: Apr. 10, 2023

Page 1 of 5

Applicant : Hunan Lianda Fire Equipment Co. LTD

Address : 660 Jianshe Avenue, Dong 'an County, Yongzhou City, Hunan Province

(The following sample(s) was (were) submitted and identified by client as)

Sample Name : Thermal initiator

Model/Item No. : RMTCX-170

Test Period : From Mar. 31, 2023 to Apr. 06, 2023

Tests Conducted : As requested by the applicant, for details refer to attached page(s).

Executive Summary

No.	TESTED SAMPLE	STANDARD / REQUIREMENT	CONCLUSION
1	Tested material(s) of submitted sample(s)	Pb, Cd, Hg, CrVI, PBBs and PBDEs - Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 and its subsequent amendments	PASS
2	Tested material(s) of submitted sample(s)	Phthalates - Commission Delegated Directive (EU) 2015/863 of 31 March 2015	PASS
3	Tested material(s) of submitted sample(s)	Client's Requirement, Refer to IEC 61249-2-21:2003 Halogen (Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I))	PASS

Signed for and on behalf of

Compliance Control Institute (Guangzhou) Co., Ltd.

Approved by:

Pascal SHI/Technical Director

Compliance Control Institute (Guangzhou) Co., Ltd.

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TEST REPORT

Report No.: CCI230300594EN-2

Report Date: Apr. 10, 2023

Page 2 of 5

TESTS CONDUCTED:

1.1. Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI))

Test Method: With reference to IEC62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, was analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) and Ultraviolet-visible Spectrophotometer (UV-Vis).

Test Items	Unit	RL	Limit	Test Result	
				1	2
Lead (Pb)	mg/kg	2	1000	N.D.	N.D.
Cadmium (Cd)	mg/kg	2	100	N.D.	N.D.
Mercury (Hg)	mg/kg	2	1000	N.D.	N.D.
Hexavalent Chromium (Cr(VI))	mg/kg	2	1000	N.D.	N.D.
Conclusion				PASS	PASS

Test Items	Unit	RL	Limit	Test Result	
				3	
Lead (Pb)	mg/kg	2	1000	N.D.	
Cadmium (Cd)	mg/kg	2	100	N.D.	
Mercury (Hg)	mg/kg	2	1000	N.D.	
Hexavalent Chromium (Cr(VI))	/	/	Negative	Negative	
Conclusion				PASS	



TEST REPORT

Report No.: CCI230300594EN-2

Report Date: Apr. 10, 2023

Page 3 of 5

1.2. Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs)

Test Method: With reference to IEC 62321-6:2015, analyzed by Gas Chromatography-Mass Spectrometry (GC-MS).

Test Items	Unit	RL	Limit	Test Result	
				1	2
Mono-bromobiphenyl	mg/kg	5	/	N.D.	N.D.
Di-bromobiphenyl	mg/kg	5	/	N.D.	N.D.
Tri-bromobiphenyl	mg/kg	5	/	N.D.	N.D.
Tetra-bromobiphenyl	mg/kg	5	/	N.D.	N.D.
Penta-bromobiphenyl	mg/kg	5	/	N.D.	N.D.
Hexa-bromobiphenyl	mg/kg	5	/	N.D.	N.D.
Hepta-bromobiphenyl	mg/kg	5	/	N.D.	N.D.
Octa-bromobiphenyl	mg/kg	5	/	N.D.	N.D.
Nona-bromobiphenyl	mg/kg	5	/	N.D.	N.D.
Deca-bromobiphenyl	mg/kg	5	/	N.D.	N.D.
Polybrominated Biphenyls (PBBs)	mg/kg	/	1000	N.D.	N.D.
Mono-bromodiphenyl ether	mg/kg	5	/	N.D.	N.D.
Di-bromodiphenyl ether	mg/kg	5	/	N.D.	N.D.
Tri-bromodiphenyl ether	mg/kg	5	/	N.D.	N.D.
Tetra-bromodiphenyl ether	mg/kg	5	/	N.D.	N.D.
Penta-bromodiphenyl ether	mg/kg	5	/	N.D.	N.D.
Hexa-bromodiphenyl ether	mg/kg	5	/	N.D.	N.D.
Hepta-bromodiphenyl ether	mg/kg	5	/	N.D.	N.D.
Octa-bromodiphenyl ether	mg/kg	5	/	N.D.	N.D.
Nona-bromodiphenyl ether	mg/kg	5	/	N.D.	N.D.
Deca-bromodiphenyl ether	mg/kg	5	/	N.D.	N.D.
Polybrominated DiphenylEthers (PBDEs)	mg/kg	/	1000	N.D.	N.D.
Conclusion				PASS	PASS



TEST REPORT

Report No.: CCI230300594EN-2

Report Date: Apr. 10, 2023

Page 4 of 5

2. Phthalates (DBP, BBP, DEHP, DIBP)

Test Method: With reference to IEC 62321-8:2017, analyzed by Gas Chromatography-Mass Spectrometry (GC-MS).

Test Substances	CAS No.	Unit	RL	Limit	Test Result	
					1	2
Dibutyl phthalate (DBP)	84-74-2	mg/kg	20	1000	N.D.	N.D.
Butyl benzyl phthalate (BBP)	85-68-7	mg/kg	20	1000	N.D.	N.D.
Di(2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg	20	1000	N.D.	N.D.
Diisobutyl phthalate (DIBP)	84-69-5	mg/kg	20	1000	N.D.	N.D.
Conclusion					PASS	PASS

Note:

1. mg/kg = milligram per kilogram (ppm).
2. "/"=Not regulated.
3. RL = report limit.
4. N.D. = Not Detected (less than RL).
5. Negative = absence of Cr(VI) coating, Positive = presence of Cr(VI) coating.

3. Halogen (Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I))

Test Method: With reference to BS EN 14582:2016, analyzed by Ion chromatograph (IC).

Test Items	Unit	RL	Limit	Test Result
				1
Fluorine(F)	mg/kg	50	/	N.D.
Chlorine (Cl)	mg/kg	50	900	N.D.
Bromine (Br)	mg/kg	50	900	N.D.
Iodine (I)	mg/kg	50	/	N.D.
Chlorine (Cl)+Bromine (Br)	/	/	1500	N.D.
Conclusion				PASS

Note:

1. mg/kg = milligram per kilogram (ppm).
2. "/"=Not regulated.
3. RL = report limit.
4. N.D. = Not Detected (less than RL).



TEST REPORT

Report No.: CCI230300594EN-2

Report Date: Apr. 10, 2023

Page 5 of 5

Test Material List

Material No.	Description	Location
1	Blue plastic	Wire sheath
2	Silvery grey powder	Inner wire sheath
3	Silvery metal	Wire core

Photo Appendix



★★★★★End of Report★★★★★