



Test Report

No.T51910242068TC

Date: MAY 28, 2019

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SHENZHEN I-LIKE FINE CHEMICAL CO., LTD
RM 10C, BOXING BUILDING, QINGSHUIHE 1ST RD,
LUOHU DISTRICT, SHENZHEN, 518000, CHINA

The following samples were submitted and identified by/on behalf of the client as:

BRAKE CLEANER

Item No. : APK-8304
Supplier : SHENZHEN I-LIKE FINE CHEMICAL CO., LTD
Manufacturer : SHENZHEN I-LIKE FINE CHEMICAL CO., LTD
Country of Origin : CHINA
Sample Receiving Date : MAY 22, 2019
Testing Period : MAY 22, 2019 TO MAY 28, 2019

Test Requested		Conclusion
1.	European RoHS Directive 2015/863/EU amending Annex II to Directive 2011/65/EU – Certain hazardous substances	--
	Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) Content analysis by wet chemical	PASS
	Phthalate Content	PASS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS-CSTC Standards Technical
Services Co., Ltd. Shenzhen Branch Testing Center



T51910242068TC

Qu Ping, Kiky
Dept. Manager



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Results:

1.1 EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU (RoHS, Previously 2002/95/EC) - Wet Chemical

Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC 62321-7-2:2017, IEC62321-6:2015

For Lead, Cadmium and Mercury, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Atomic Absorption Spectrometer (AAS)

For Hexavalent Chromium, analysis was performed by Ultraviolet Visible Spectrophotometer (UV-Vis)

For PBBs & PBDEs, analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	Result (mg/kg)	MDL (mg/kg)	Permissible Limit (mg/kg)
	1		
Lead (Pb)	ND	2	1000
Cadmium(Cd)	ND	2	100
Mercury (Hg)	ND	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction	ND	8	1000
Sum of PBBs	ND	--	1000
Monobromobiphenyl	ND	5	--
Dibromobiphenyl	ND	5	--
Tribromobiphenyl	ND	5	--
Tetrabromobiphenyl	ND	5	--
Pentabromobiphenyl	ND	5	--
Hexabromobiphenyl	ND	5	--
Heptabromobiphenyl	ND	5	--
Octabromobiphenyl	ND	5	--
Nonabromobiphenyl	ND	5	--
Decabromobiphenyl	ND	5	--
Sum of PBDEs	ND	--	1000
Monobromodiphenyl ether	ND	5	--
Dibromodiphenyl ether	ND	5	--
Tribromodiphenyl ether	ND	5	--
Tetrabromodiphenyl ether	ND	5	--
Pentabromodiphenyl ether	ND	5	--
Hexabromodiphenyl ether	ND	5	--
Heptabromodiphenyl ether	ND	5	--
Octabromodiphenyl ether	ND	5	--
Nonabromodiphenyl ether	ND	5	--
Decabromodiphenyl ether	ND	5	--
Comment	PASS	--	--



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Specimen Description:

1. Transparent liquid

- Note:
- mg/kg = milligram per kilogram
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - The result of Hexavalent chromium (Cr(VI)) is deemed to be "ND" since the result of total chromium content is "ND", so the testing of Hexavalent chromium (Cr(VI)) is not requirement.
 - If the Chromium (Cr) content is greater than the MDL, And confirmation test of Hexavalent Chromium (Cr(VI)) is required.
 - The maximum permissible limit is quoted from the EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU
 - Result(s) of Pb, Cd, Hg & Cr6+ for specimen No. 1 is(are) calculated based on the status as received
 - Result(s) of PBBs & PBDEs for specimen No.1 is(are) calculated based on the status as received



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1.2 Phthalates Content

Method: With reference to IEC 62321-8:2017

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	CAS No.	Result(s) (mg/kg)	MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	1		
Alias No.	--	3		
Tracing No.	--	1		
Dibutyl Phthalate (DBP)	84-74-2	ND	50	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	50	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	50	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	50	1000

Specimen Description:

1. Transparent liquid

Note: mg/kg = milligram per kilogram

- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit
- 1% = 10000 mg/kg = 10000 ppm
- Result(s) of specimen No. 1 is(are) calculated based on the status as received.



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