



Test Report

No. SHAHG2014484201

Date: 04 Aug 2020

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HUGS AND THINGS

HORTENSIALAAN 1A 1.11, 6851TB HUISSEN, THE NETHERLANDS

The following sample(s) was/were submitted and identified on behalf of the clients as : 7 SILICONE MASTERBATCHES

SGS Job No. : SHHL2007532206OT - SH
Buyer : HUGS AND THINGS
Manufacturer :
Supplier :
Country of Origin : CHINA
Country of Destination : THE NETHERLANDS
Date of Sample Received : 28 Jul 2020
Testing Period : 28 Jul 2020 - 04 Aug 2020
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
EN71-3: 2019 as harmonized standard under Directive 2009/48/EC and its amendment (EU) 2019/1728 – Migration of certain elements (Category I: for dry, brittle, powder-like or pliable toy material)	PASS
Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 – Organostannic compounds	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Lezlie Chen

Lezlie Chen
Approved Signatory

scan to see the report



SHAHG2014484201



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center (China) Laboratory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA20-144842.001	White silicone masterbatches
SN2	SHA20-144842.002	Dark green silicone masterbatches
SN3	SHA20-144842.003	Dark blue silicone masterbatches
SN4	SHA20-144842.004	Black silicone masterbatches
SN5	SHA20-144842.005	Red silicone masterbatches
SN6	SHA20-144842.006	Lemon yellow silicone masterbatches
SN7	SHA20-144842.007	Purplish red silicone masterbatches
SN8	SHA20-144842.008	White silicone masterbatches+Dark green silicone masterbatches+Dark blue silicone masterbatches
SN9	SHA20-144842.009	Black silicone masterbatches+Red silicone masterbatches+Lemon yellow silicone masterbatches

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

EN71-3: 2019 as harmonized standard under Directive 2009/48/EC and its amendment (EU) 2019/1728 – Migration of certain elements (Category I: for dry, brittle, powder-like or pliable toy material)

Test Method : With reference to EN 71-3:2019, analysis was performed by ICP-MS, IC-UV or LC-ICP-MS.

Test Item(s)	Limit	Unit	MDL	001	002	003
Soluble Chromium (VI) (Cr VI)	0.020	mg/kg	0.010	ND	ND	ND
Soluble Lead (Pb)	2	mg/kg	0.5	ND	ND	ND
Soluble Antimony (Sb)	45	mg/kg	1	ND	ND	ND
Soluble Arsenic (As)	3.8	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	1500	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	1.3	mg/kg	0.1	ND	ND	ND
Soluble Chromium (III) (Cr III)	37.5	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	7.5	mg/kg	0.5	ND	ND	ND
Soluble Selenium (Se)	37.5	mg/kg	5	ND	ND	ND
Soluble Boron (B)	1200	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	10.5	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	1200	mg/kg	50	ND	ND	ND



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Test Item(s)	Limit	Unit	MDL	001	002	003
Soluble Strontium (Sr)	4500	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	3750	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	622.5	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	5625	mg/kg	50	ND	ND	189
Soluble Nickel (Ni)	75	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	15000	mg/kg	0.15	ND	ND	ND
Soluble Organic Tin*	0.9	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	004	005	006
Soluble Chromium (VI) (Cr VI)	0.020	mg/kg	0.010	ND	ND	ND
Soluble Lead (Pb)	2	mg/kg	0.5	ND	ND	ND
Soluble Antimony (Sb)	45	mg/kg	1	ND	ND	ND
Soluble Arsenic (As)	3.8	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	1500	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	1.3	mg/kg	0.1	ND	ND	ND
Soluble Chromium (III) (Cr III)	37.5	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	7.5	mg/kg	0.5	ND	ND	ND
Soluble Selenium (Se)	37.5	mg/kg	5	ND	ND	ND
Soluble Boron (B)	1200	mg/kg	50	ND	ND	169
Soluble Cobalt (Co)	10.5	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	1200	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	4500	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	3750	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	622.5	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	5625	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	75	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	15000	mg/kg	0.15	ND	ND	ND
Soluble Organic Tin*	0.9	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	007
Soluble Chromium (VI) (Cr VI)	0.020	mg/kg	0.010	ND
Soluble Lead (Pb)	2	mg/kg	0.5	ND
Soluble Antimony (Sb)	45	mg/kg	1	ND
Soluble Arsenic (As)	3.8	mg/kg	0.5	ND
Soluble Barium (Ba)	1500	mg/kg	50	ND
Soluble Cadmium (Cd)	1.3	mg/kg	0.1	ND
Soluble Chromium (III) (Cr III)	37.5	mg/kg	5	ND
Soluble Mercury (Hg)	7.5	mg/kg	0.5	ND
Soluble Selenium (Se)	37.5	mg/kg	5	ND



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Test Item(s)	Limit	Unit	MDL	007
Soluble Boron (B)	1200	mg/kg	50	ND
Soluble Cobalt (Co)	10.5	mg/kg	0.5	ND
Soluble Manganese (Mn)	1200	mg/kg	50	ND
Soluble Strontium (Sr)	4500	mg/kg	50	ND
Soluble Zinc (Zn)	3750	mg/kg	50	ND
Soluble Copper (Cu)	622.5	mg/kg	50	ND
Soluble Aluminum (Al)	5625	mg/kg	50	ND
Soluble Nickel (Ni)	75	mg/kg	10	ND
Soluble Tin (Sn)	15000	mg/kg	0.15	ND
Soluble Organic Tin*	0.9	mg/kg	-	ND

Notes :

(1) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019.

Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 – Organostannic compounds

Test Method : With reference to ISO 17353: 2004 , analysis was performed by GC-MS

Test Item(s)	Limit	Unit	MDL	007
Σ of Tri substituted organotin compounds calculated as tin*	0.1	%	0.01	ND
Dibutyltin (DBT) Compounds (as Tin)	0.1	%	0.01	ND
Di-octyltin (DOT) Compounds (as Tin)	0.1	%	0.01	ND

Conclusion

PASS

Test Item(s)	Limit	Unit	MDL	008
Σ of Tri substituted organotin compounds calculated as tin*	0.1	%	0.01	ND
Dibutyltin (DBT) Compounds (as Tin)	0.1	%	0.01	ND
Di-octyltin (DOT) Compounds (as Tin)	0.1	%	0.01	ND

Conclusion

PASS

Test Item(s)	Limit	Unit	MDL	009
Σ of Tri substituted organotin compounds calculated as tin*	0.1	%	0.01	ND
Dibutyltin (DBT) Compounds (as Tin)	0.1	%	0.01	ND
Di-octyltin (DOT) Compounds (as Tin)	0.1	%	0.01	ND

Conclusion

PASS

Notes :

* Trisubstituted organotin compounds include Tributyltin (TBT), Triphenyltin (TPhT), Tripropyltin (TPT),



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Tricyclohexyltin (TCyT), Trioctyltin (TOT) and Trimethyltin (TMT).

Remark:

Test was conducted on composite of random parts of the item as per client's request and the test result is the overall result.

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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