

Test Report

Number: SHAH01024876

Applicant:

Date: 06 Nov, 2018

Sample Description:

One (1) Group Of Submitted Sample Said To Be : KNIFE 9MM AND SPARE BLADES 9MM

Item Name : KNIFE 9MM AND SPARE BLADES 9MM

Carrefour Intervention No. : 1810388932

Carrefour Reference No. : DY76385

Supplier Reference No. : 38G-S1+S-80 (10B)

Supplier : NINGBO ASSIST TOOLS CO., LTD

Collection : DYO19

Buyer : CARREFOUR

Country Of Origin : CHINA



Picture 1



Picture 2

Tests Conducted:

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

To be continued

Authorized By:

For Intertek Testing Services Ltd., Shanghai

Leo Shi
General Manager



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Conclusion:

<u>Tested samples</u>	<u>Standard</u>	<u>Result</u>
Tested components of submitted sample	Cadmium content requirement in Commission Regulation (EU) No. 494/2011 of 20 May 2011, (EU) No. 835/2012 of 18 September 2012 and (EU) No. 2016/217 of 16 February 2016 Amending Annex XVII Items 23 of the Reach Regulation (EC) No. 1907/2006	Pass
	Carrefour's requirement on PAHs content	Pass
	Carrefour's requirement on PAHs content	Pass
	Client's requirement on AfPS GS 2014:01 PAK for Polycyclic Aromatic Hydrocarbons (PAHs) content	Pass
Tested component of submitted sample	Carrefour's requirement on chlorinated paraffin (C10 – C13) content	Pass
	Carrefour's requirement on phthalates(18P)	Pass

		To be continued

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For Intertek Testing Services Ltd., Shanghai



Leo Shi
General Manager



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Tests Conducted

1 Cadmium (Cd) content

With reference to methods EN 1122 (Method B)/ IEC 62321:2008/ ISO 11885:2007, acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested component	Result in %
(1)	ND
(2)	ND
(3)	ND
(4)	ND
(5)	ND
(6)	ND
(7)	ND

Requirement:	
Category	Limit (%)
Paints with codes [3208] and [3209]	0.01
Paints with codes [3208] [3209] with a zinc content exceeding 10 % by weight of the paint	0.1
Painted article	0.1
Plastic	0.01
Metal parts of jewellery & hair accessories	0.01

Remark: ND = not Detected (<0.0005%)

Tested Components: See component list in the last section of this report.

Date Sample Received: Oct.31, 2018

Testing Period: Oct.31, 2018 to Nov.5, 2018

2 Polycyclic-aromatic hydrocarbons (PAHs) content

By solvent extraction and then followed by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Compound	Result (mg/kg)				Reuirement (mg/kg) (Max.)
	(3)	(4)	(6)	(7)	
Benzo(a)pyrene	ND	ND	ND	ND	1
Benzo(e)pyrene	ND	ND	ND	ND	1
Benzo(a)anthracene	ND	ND	ND	ND	1
Chrysene	ND	ND	ND	ND	1
Benzo(b)fluoranthene	ND	ND	ND	ND	1
Benzo(j)fluoranthene	ND	ND	ND	ND	1
Benzo(k)fluoranthene	ND	ND	ND	ND	1
Dibenzo(a,h)anthracene	ND	ND	ND	ND	1

To be continued



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Tests Conducted

Remark: ND = Not Detected
Detection Limit = 0.2 mg/kg

Tested Components: See component list in the last section of this report

Date Sample Received: Oct.31, 2018
Testing Period: Oct.31, 2018 to Nov.5, 2018

3 Polycyclic Aromatic Hydrocarbons (PAH) Content

With reference to AfPS GS 2014:01 PAK, by solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

No.	Testing Item	CAS No.	Result (mg/kg)				Requirement (mg/kg) (Max.)
			(3)	(4)	(6)	(7)	
1	Benzo[a]pyrene	50-32-8	ND	ND	ND	ND	0.5
2	Benzo[e]pyrene	192-97-2	ND	ND	ND	ND	0.5
3	Benzo[a]anthracene	56-55-3	ND	ND	ND	ND	0.5
4	Benzo[b]fluoranthene	205-99-2	ND	ND	ND	ND	0.5
5	Benzo[j]fluoranthene	205-82-3	ND	ND	ND	ND	0.5
6	Benzo[k]fluoranthene	207-08-9	ND	ND	ND	ND	0.5
7	Chrysene	218-01-9	ND	ND	ND	ND	0.5
8	Dibenzo[a,h]anthracene	53-70-3	ND	ND	ND	ND	0.5
9	Benzo[g,h,i]perylene	191-24-2	ND	ND	ND	ND	0.5
10	Indeno[1,2,3-c,d]pyrene	193-39-5	ND	ND	ND	ND	0.5
11	Acenaphthylene	208-96-8	ND	ND	ND	ND	--
12	Acenaphthene	83-32-9	ND	ND	ND	ND	--
13	Fluorene	86-73-7	ND	ND	ND	ND	--
14	Phenanthrene	85-01-8	ND	ND	ND	ND	--
15	Anthracene	120-12-7	ND	ND	ND	ND	--
16	Fluoranthene	206-44-0	ND	ND	ND	ND	--
17	Pyrene	129-00-0	ND	ND	ND	ND	--
	Sum of PAHs (No. 11-17)	--	ND	ND	ND	ND	20
18	Naphthalene	91-20-3	ND	ND	ND	0.3	10
	Sum of PAHs(No.1-18)	--	ND	ND	ND	0.3	20

To be continued

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Tests Conducted

Remark: Detection limit = 0.2 mg/kg
ND = Not Detected

Tested Components: See component list in the last section of this report.

Date Sample Received: Oct.31, 2018
Testing Period: Oct.31, 2018 to Nov.5, 2018

4 Polycyclic Aromatic Hydrocarbons (PAHs) Content

With reference to AfPS GS 2014:01 PAK, by solvent extraction and determined by Gas Chromatography – Mass Spectrometer (GC/MS).

(I) Test Results

Testing Item	Result (in mg/kg)			
	(3)	(4)	(6)	(7)
1. Benzo[a]anthracene	ND	ND	ND	ND
2. Chrysene	ND	ND	ND	ND
3. Benzo[b]fluoranthene	ND	ND	ND	ND
4. Benzo[j]fluoranthene	ND	ND	ND	ND
5. Benzo[k]fluoranthene	ND	ND	ND	ND
6. Benzo[e]pyrene	ND	ND	ND	ND
7. Benzo[a]pyrene	ND	ND	ND	ND
8. Indeno[1,2,3-c,d]pyrene	ND	ND	ND	ND
9. Dibenzo[a,h]anthracene	ND	ND	ND	ND
10. Benzo[g,h,i]perylene	ND	ND	ND	ND
11. Acenaphthylene	ND	ND	ND	ND
12. Acenaphthene	ND	ND	ND	ND
13. Fluorene	ND	ND	ND	ND
14. Phenanthrene	ND	ND	ND	ND
15. Anthracene	ND	ND	ND	ND
16. Fluoranthene	ND	ND	ND	ND
17. Pyrene	ND	ND	ND	ND
Sum of 11-17 PAHs	ND	ND	ND	ND
18. Naphthalene	ND	ND	ND	0.3
Sum of 1-18 PAHs	ND	ND	ND	0.3
Classification of Samples (other products): Category	2	2	2	2

To be continued



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Tests Conducted

ND= Not detected

Detection limit = 0.2 mg/kg

(II) Limits for PAH in Products

Parameter	Category 1	Category 2		Category 3	
/	To be taken material, which are intended in the mouth, or materials in toys intended and with long-term skin contact (longer than 30 s)	Materials that do not fall into category 1, with foreseeable contact to skin longer than 30 s (long-term skin contact) or short-term repeated skin contact ^{a)}		Materials that do not fall into category 1 or 2, with foreseeable contact to skin up to 30 s (short-term skin contact)	
/	/	Toys by RL 2009/48/EC	other products by ProdSG	Toys by RL 2009/48/EC	other products by ProdSG
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-c,d]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Acenaphthylen, Acenaphthen, Fluoren, Phenanthren, Pyren, Anthracen, Fluoranthen	< 1 (Sum)	< 5 (Sum)	< 10 (Sum)	< 20 (Sum)	< 50 (Sum)
Naphthalene	< 1	< 2		< 10	
Sum 18 PAHs	< 1	< 5	< 10	< 20	< 50

^{a)} Formulation "of repeated short-term skin contact" REACH Annex XVII No. 50 supplement (REGULATION (EU) No 1272/2013)

Tested Components: See component list in the last section of this report

Date Sample Received: Oct.31, 2018

Testing Period: Oct.31, 2018 to Nov.5, 2018

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Tests Conducted

5 Chlorinated Paraffin (C10 – C13)

By solvent extraction, determined by Gas Chromatography-Electron Capture Detector (GC-ECD) and Gas Chromatography-Negative Chemical Ionization-Mass Spectrometry (GC-NCI-MS).

<u>Tested Component</u> (7)	<u>Result (in ppm)</u> 70	<u>Requirement</u> 1000ppm
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Remark: Detection Limit = 50ppm
ppm = parts per million = mg/kg

Tested Components: See component list in the last section of this report.

Date Sample Received: Oct.31, 2018
Testing Period: Oct.31, 2018 to Nov.5, 2018

6 Phthalate content test

With reference to EN 14372, by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

<u>Tested Compound</u>	<u>Result (%w/w)</u> (7)	<u>Limit (%w/w)</u> (max.)
Di-butyl phthalate (DBP)	ND	0.1
Di(2-ethyl hexyl) phthalate(DEHP)	ND	0.1
Benzyl butyl phthalate (BBP)	ND	0.1
Di-iso-nonyl phthalate (DINP)	ND	0.1
Di-n-octyl phthalate (DnOP)	ND	0.1
Di-iso-decyl phthalate (DIDP)	ND	0.1
Di-iso-butyl phthalate (DIBP)	ND	0.1
1,2-Benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich (DIHP)	ND	0.1
1,2-Benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters (DHNUP)	ND	0.1
Bis(2-methoxyethyl) phthalate (DMEP)	ND	0.1
n-Pentyl-iso-pentyl phthalate	ND	0.1
Dipentyl phthalate (DPP)	ND	0.1
Di-iso-pentyl phthalate (DIPP)	ND	0.1
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	ND	0.1
Di-n-hexyl phthalate (DnHP)	ND	0.1
1,2-Benzenedicarboxylic acid, dihexylester, branched and linear	ND	0.1
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	ND	0.1
Dicyclohexyl phthalate (DCHP)	ND	0.1



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Remark: Detection Limit = 0.01%(w/w)
ND = Not Detected

Tested Components: see component list in the last section of this report

Date Sample Received: Oct.31, 2018
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Components List:

- (1) Orange plastic. (cap of box)
- (2) Semi-transparent plastic. (box)
- (3) Black plastic. (end of art knife)
- (4) Black plastic. (switch of art knife)
- (5) Black plastic. (rivet of art knife)
- (6) Orange plastic. (art knife)
- (7) Black soft plastic. (two side of art knife)

End Of Report

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