

# Test Report

No. TAOML1801322401

Date: 03 Apr 2018

Page 1 of 5

MIRACLL CHEMICALS CO.,LTD.

NO.35 CHANGSHA ROAD, YANTAI 264006, SHANDONG, P.R.CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : H220

SGS Job No. : QDIN1803001665PC - QD  
 Manufacturer : MIRACLL CHEMICALS CO.,LTD.  
 Date of Sample Received : 30 Mar 2018  
 Testing Period : 30 Mar 2018 - 03 Apr 2018  
 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
Polycyclic aromatic hydrocarbons (PAHs)	See Results

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



Wang Bo, Claire  
 Approved Signatory



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No. TAOML1801322401

Date: 03 Apr 2018

Page 2 of 5

Test Results :

### Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	TAO18-013224.001	White plastic pellet

Remarks :

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

### Polycyclic aromatic hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	001
Benzo(a)pyrene(BaP)	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	mg/kg	0.1	ND
Chrysene(CHR)	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	mg/kg	0.1	ND
Acenaphthylene(ANY)	mg/kg	0.1	ND
Acenaphthene(ANA)	mg/kg	0.1	ND
Fluorene(FLU)	mg/kg	0.1	ND
Phenanthrene(PHE)	mg/kg	0.1	ND
Pyrene(PYR)	mg/kg	0.1	ND
Anthracene(ANT)	mg/kg	0.1	ND
Fluoranthene(FLT)	mg/kg	0.1	ND
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	mg/kg	-	ND
Naphthalene(NAP)	mg/kg	0.1	ND
Sum of 18 PAHs	mg/kg	-	ND



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### AlPS (German commission for Product Safety) : GS PAHs requirements

Parameter	Category 1	Category 2		Category 3	
	Material intended to be put in the mouth or toys with intended skin contact (longer than 30 s).	Materials not falling under category 1 with foreseeable contact to skin for longer than 30 s (long-term skin) or frequent contact.		Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 s (short-term skin contact).	
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG
Benzo(a)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene Mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Acenaphthylene, Acenaphthene, fluorene, phenanthrene, pyrene, anthracene, fluoranthene, mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene, mg/kg	< 1	< 2		< 10	
Sum of 18 PAHs	< 1	< 5	< 10	< 20	< 50

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## Test Report

No. TAOML1801322401

Date: 03 Apr 2018

Page 4 of 5

A170 A175 A180 A185 A190  
A195 A165D A175D  
A270 A275 A280 A285 A290  
A295 A265D A275D A280D A285D  
A290S A290F  
A370 A375 A385 A390 A395  
A365D A375D A380D A385D  
A80D A85D  
A870 A875 A880 A885 A890  
A895 A865D A875D A880D A885D  
A880S A880F  
C80 C85 C90 C95  
E10U E155D E165D E175D  
E180 E185 E190 E195  
E180U E185U E190U E195U E190k  
E180FE185FE190FE195F  
E180W E185W E190W E195W  
E180ZE185ZE190ZE195Z  
E185S E195S  
E180LE180LB E185LE185LU E190L  
E190LU E195LE155DL E165DL  
E20S E30R E255 E260 E265  
E270 E275 E280 E285 E290  
E295  
E370 E375 E380 E385 E390  
E395 E355D E365D E375D E485  
E570 E580 E585 E590 E595  
E60 E65 E585S E685S E55DS  
E680 E685 E690 E695 E685B  
E655D E665D E675D E690U  
E70 E75 E80 E85 E90  
E95 E95U E75F E85F E85S

F155 F160 F165 F170 F175  
F815 F820 F830 F840 F850  
G350 G350P G360 G360P G365  
G365P G375 G385 G495  
H190 H206 H210 H220 H230  
H240 H290 H290H H290LH220E  
H306 H320 H390



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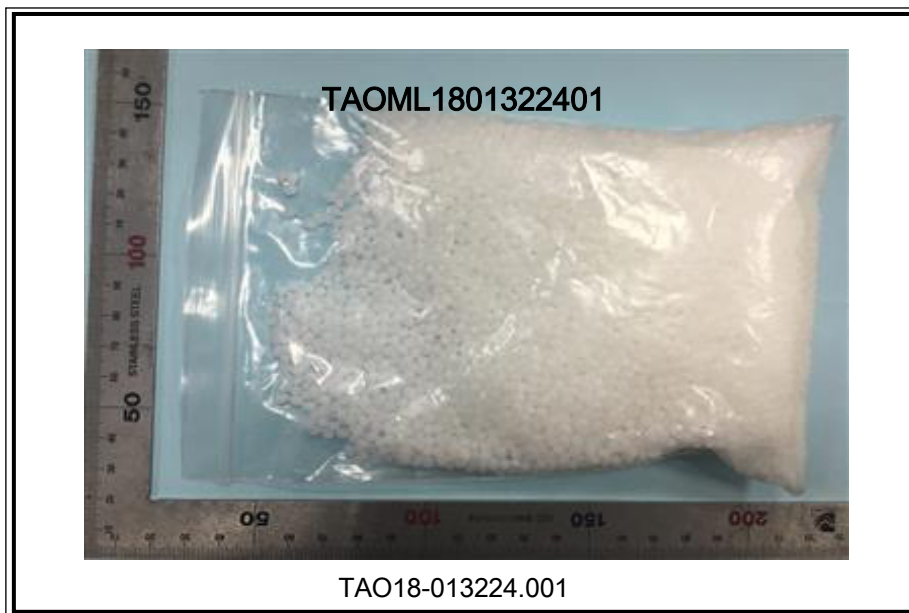
No. TAOML1801322401

Date: 03 Apr 2018

Page 5 of 5

H565 H570 H575 H580 H585  
H590 H670 H675 H680 H685  
H690 H695 H780 H785 H870  
I80D I85D L80 L85 L90  
L95 L55D L65D L75D  
M180 M185 M190 M195 M190S  
M380 M385 M390 M395  
M60 M65 M70 M75 M80  
M85 M88 M90 M95 M90S  
M70F M75F M80F M85F M90F  
M95F M55D M65D  
M80W M85W M90W M95W  
M80Z M85Z M90Z M95Z  
S90 S95 S55D S65D S180  
S185 S190 S155D S165D  
T95U  
V155 V160 V165 V170 V175  
V180 V185 V275 V575 V670  
V675 V680 V685 V965 V970  
V975 V980 V985

Sample photo:



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