



**BUREAU
VERITAS**

CHANGSHU MIKUNI CHEMICAL CO., LTD.
常熟美克尼化工有限公司

Technical Report: (9121)221-0113
测试报告编号: (9121)221-0113
Date Received: AUG. 09,2021
来样日期: 2021年08月09日

AUG. 16,2021
2021年08月16日

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QIJIA LU
陆起家
CHANGSHU MIKUNI CHEMICAL CO., LTD.
常熟美克尼化工有限公司
NO.9 WANFU ROAD, CHANGSHU ECONOMIC AND
TECHNOLOGICAL DEVELOPMENT ZONE, JIANGSU PROVINCE
江苏省常熟经济技术开发区万福路9号

Sample Description:	INK JOY BLACK LHF-90	Sample Quantity:	N/A
样品描述:	墨水 JOY BLACK LHF-90	样本量:	无
Vendor:	N/A	Style No(s):	N/A
供应商:	无	型号:	无
Manufacturer:	N/A	SKN/SKU No.:	N/A
制造工厂:	无	SKU#:	无
Buyer:	N/A	PO No.:	N/A
买家:	无	订单号:	无
Labeled Age Grade:	N/A	Ref #:	N/A
标记年龄级:	无	Ref #:	无
Appropriate Age Grade:	N/A	Country of Origin:	N/A
适当的年龄等级:	无	原产国:	无
Client Specified Age Grade:	N/A	Assortment No.:	N/A
客户指定的年龄级:	无	分类.:	无
Tested Age Grade:	N/A	Country of Destination:	N/A
测试年龄级:	无	目的国:	无
UPC Code:	N/A		
UPC#:	无		

EXECUTIVE SUMMARY:

摘要

The test component(s) MEETS the following requirement(s):
测试点符合以下标准:

- The migration of certain elements in toy material requirements of the European Standard, "Safety of Toys" EN 71 Part 3: 2019+A1:2021.
欧盟玩具安全标准 EN71-3: 2021 特定元素的迁移

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RESULTS:

NOTE:

注解:

1. Chinese translation of report just for reference only, English report shall prevail if you have any objection.
报告中文翻译仅供参考，如有异议以英文报告内容为准
2. As per client request, the tests were conducted on specified components only.
根据客户要求，仅在指定的组件上进行测试。

BVCPS (Shanghai) Nanjing branch contact information for this report

Technical Questions:

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**BUREAU VERITAS
CONSUMER PRODUCTS SERVICES (SHANGHAI)
NANJING BRANCH**

SAM XIA
CHEMICAL SUPERVISOR



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RESULTS:

Tested component(s) breakdown list

测试部件分解清单

Sample Identity	Color	Location	Style
A.	Black ink 黑色墨水	/	/

Migration of Certain Elements - European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 with its Latest Amendment

可迁移元素的限量-欧盟玩具安全标准 EN71-3: 2021

Test Method: : European Standard EN 71 Part 3: 2019+A1:2021

测试方法: : 欧盟玩具安全标准 EN71-3: 2021

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table 可溶元素(参数)及其对应的最大允许限值(要求)见结果表	Category I 类型 I	Dry, brittle, powder-like or pliable toy material 干燥, 易碎, 粉末状或柔韧性的玩具材料
	Category II 类型 II	Liquid or sticky toy material 液体或者粘性玩具材料
	Category III 类型 III	Scraped-off toy material 可刮下来的玩具材料

Parameter	Unit	Detection Limit	Result						Limit
			A.	/	/	/	/	/	
Category II	-	-	-	/	/	/	/	/	-
Boron(B)	mg/kg	30	ND	/	/	/	/	/	300
Aluminum(Al)	mg/kg	56	ND	/	/	/	/	/	560
Chromium III (Cr III)	mg/kg	0.94	ND	/	/	/	/	/	9.4
Chromium VI (Cr VI)	mg/kg	0.005	ND	/	/	/	/	/	0.005
Manganese(Mn)	mg/kg	30	ND	/	/	/	/	/	300
Cobalt(Co)	mg/kg	0.26	ND	/	/	/	/	/	2.6
Nickel(Ni)	mg/kg	1.88	ND	/	/	/	/	/	18.8
Copper(Cu)	mg/kg	15.6	ND	/	/	/	/	/	156
Zinc(Zn)	mg/kg	93.8	ND	/	/	/	/	/	938
Arsenic(As)	mg/kg	0.09	ND	/	/	/	/	/	0.9
Selenium(Se)	mg/kg	0.94	ND	/	/	/	/	/	9.4



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RESULTS:

Strontium(Sr)	mg/kg	112.5	ND	/	/	/	/	/	1125
Cadmium(Cd)	mg/kg	0.03	ND	/	/	/	/	/	0.3
Tin(Sn)	mg/kg	375	ND	/	/	/	/	/	3750
Organic tin compounds(OT)	mg/kg	0.02	ND	/	/	/	/	/	0.2
Antimony(Sb)	mg/kg	1.13	ND	/	/	/	/	/	11.3
Barium(Ba)	mg/kg	37.5	ND	/	/	/	/	/	375
Mercury(Hg)	mg/kg	0.19	ND	/	/	/	/	/	1.9
Lead(Pb)	mg/kg	0.05	0.055	/	/	/	/	/	0.5
Conclusion	-	-	PASS	/	/	/	/	/	-

Note / Key :

ND = Not detected

NR = Not requested

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

">" = Greater than

g = gram(s)

Req. = Requirement

Remark:

#If combined Cr content exceeds 0.02mg/kg in I mat., 0.005 mg/kg in II mat., or 0.053mg/kg in III mat., confirmation Cr(VI) by IC-ICP-MS or IC-UV/VIS. Cr(III)=Combined Cr – Cr(VI)

*Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation unless further specified.

□The pH measured shall be reported after migration if it was outside the range of 1.1 to 1.3.



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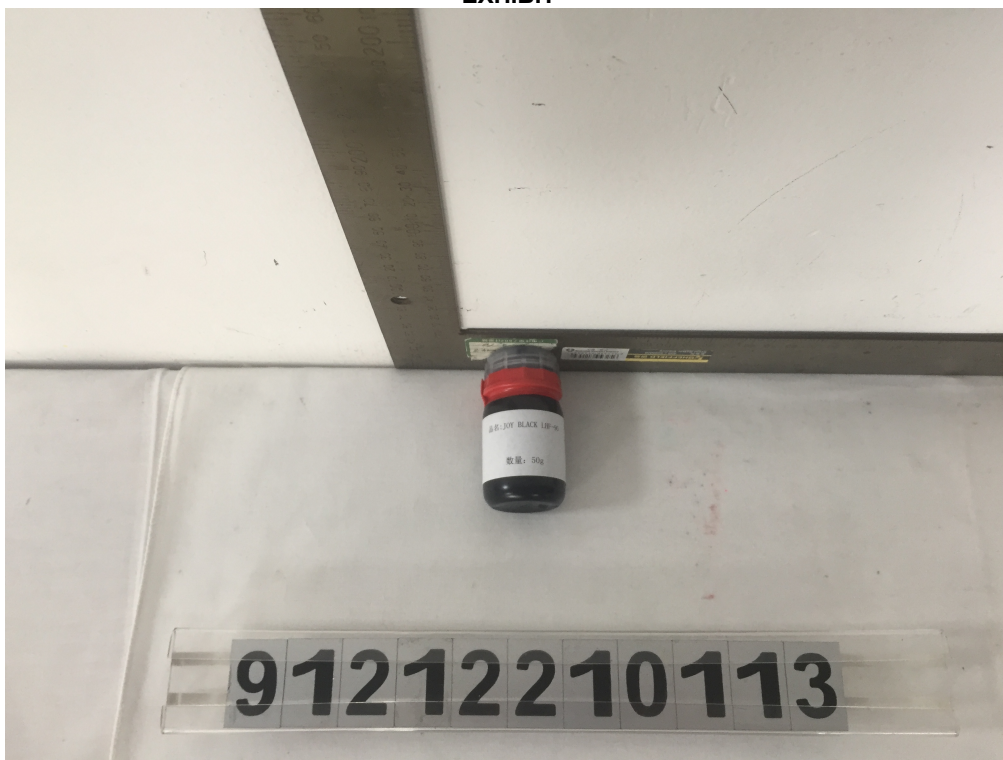
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RESULTS:

EXHIBIT



-----End The Report-----

-----报告结束-----