

# TEST REPORT

**APPLICANT** : Ravensden PLC  
**ADDRESS** : Ravensden Farm Bedford Road, Rushden  
 Northamptonshire.NN10 0SQ.UK.  
**SAMPLE DESCRIPTION** : SEA OTTER  
**ITEM NO.** : FR070B  
**P.O. NO.** : RAV-EF-SHA-201  
**MANUFACTURER** : Ravensden Plc  
**BUYER** : Ravensden Plc  
**COUNTRY OF ORIGIN** : China  
**COUNTRY OF DESTINATION** : UK and EU  
**AGE REQUESTED ON APPLICATION FORM** : All Ages  
**LABELED AGE GRADE** : Not Present  
**AGE GRADE APPLIED IN TESTING** : All Ages  
**SAMPLE RECEIVED DATE** : 06-Dec-2021  
**TURN AROUND TIME** : 06-Dec-2021 to 10-Dec-2021

The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant


TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Physical and Mechanical Hazards	EN 71-1:2014+A1:2018	Pass
Labeling Requirement for European Union	Directive 2009/48/EC	Pass(See Remark)
Labeling Requirement for United Kingdom	The Toys (Safety) Regulations 2011 and The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019	Pass(See Remark)
Flammability of Toys	EN 71-2:2020	Pass
Migration of Certain Elements	EN 71-3:2019+A1:2021	Pass

**Remark:** Labeling review refers to a directive requirement, which is not a test can be accredited by UKAS.

*Samples are obtained by express delivery, Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to [info.sh@eurofins.com](mailto:info.sh@eurofins.com) and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to [chinacomplaint@eurofins.com](mailto:chinacomplaint@eurofins.com) and referring to this report number.*

**Eurofins (Shanghai) contact information****Customer service:** [SallyZhang@eurofins.com](mailto:SallyZhang@eurofins.com)/ +86 216 1819 181**Sales specialist:** [SimonGault@eurofins.com](mailto:SimonGault@eurofins.com)

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

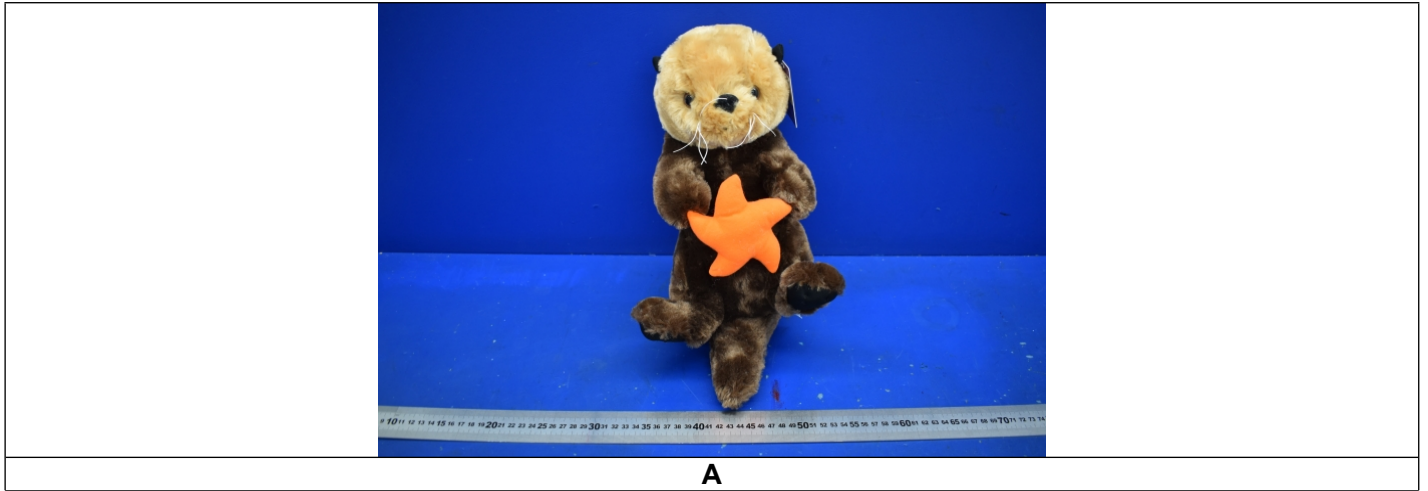
Signed for and on behalf of  
Eurofins Product Testing Service (Shanghai) Co., Ltd

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Joyce Liu  
Lab Manager



**SAMPLE PHOTO(S)**



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**EFSH21120562-CG-01**



\*\*\*TO BE CONTINUED\*\*\*

**SAMPLE PHOTO(S)**



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**EFSH21120562-CG-01**



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**COMPONENT LIST**

<b>Component No.</b>	<b>Component</b>	<b>Quote From</b>	<b>Sample No.</b>
1	Multi-color fabric (label)	EFSH21120561-CG-01	A
2	White fabric with black printing (label)	EFSH21120561-CG-01	A
3	Brown plush fabric (head)	/	A
4	Dark brown plush fabric (body)	/	A
5	Black fabric (foot)	/	A
6	Transparent plastic (eyes)	/	A
7	White fabric (mustache)	/	A
8	Black plastic with black flocking (nose)	/	A
9	Black thread (mouth)	/	A
10	Orange felt fabric (star)	/	A

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Physical and Mechanical Hazards

Test Request: As specified in European Standard on Safety of Toys EN 71-1:2014+A1 :2018

Section	Description	Result
4	General requirements	
4.1	Material cleanliness (by visual assessment)	P
4.2	Assembly	N/A
4.3	Flexible plastic sheeting	N/A
4.4	Toy Bags	N/A
4.5	Glass	N/A
4.6	Expanding Materials	N/A
4.7	Edges	P
4.8	Points and Metallic Wires	P
4.9	Protruding parts	N/A
4.10	Parts moving against each other	
4.10.1	Folding and sliding mechanisms	N/A
4.10.2	Driving mechanisms.	N/A
4.10.3	Hinges	N/A
4.10.4	Springs	N/A
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	N/A
4.12	Balloons	N/A
4.13	Cords of toy kites and other flying toys.	N/A
4.14	Enclosures	
4.14.1	Toys which a child can enter	N/A
4.14.2	Masks and helmets	N/A
4.15	Toys intended to bear the mass of a child	
4.15.1	Toys propelled by the child or by other means	N/A
4.15.2	Toy bicycles	N/A
4.15.3	Rocking horses and similar toys	N/A
4.15.4	Toys not propelled by a child	N/A
4.15.5	Toys scooters	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectiles	
4.17.1	General	N/A
4.17.2	All projectiles	N/A
4.17.3	Projectile toy with stored energy	N/A
4.17.4	Certain projectile toys without stored energy	N/A
4.18	Aquatic toys and inflatable toys	N/A
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	N/A
4.20	Acoustics	
4.20.2.1	General	N/A
4.20.2.2	Close-to-the-ear toys	N/A
4.20.2.3	Table-top or floor toys	N/A
4.20.2.4	Hand-held toys	N/A
4.20.2.5	Toys using headphones or earphones	N/A
4.20.2.6	Rattles	N/A
4.20.2.7	Squeeze toys	N/A
4.20.2.8	Pull-along or push toys	N/A
4.20.2.9	Percussion toys	N/A

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

Section	Description	Result
4.20.2.10	Wind toys	N/A
4.20.2.11	Cap-firing toys	N/A
4.20.2.12	Voice toys	N/A
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23	Magnets	N/A
4.24	Yo-yo balls	N/A
4.25	Toys attached to food	N/A
4.26	Toy disguise costumes	N/A
4.27	Flying toys	
4.27.1	General	N/A
4.27.2	Rotors and propellers on flying toys	N/A
4.27.3	Rotors and propellers on remote controlled flying toys	N/A
5	Toys intended for children under 36 months	
5.1	General requirements	P
5.2	Soft-filled toys and soft-filled parts of a toy	P
5.3	Plastic sheeting	N/A
5.4	Cords, chains and electrical cables in toys	P
5.5	Liquid-filled toys	N/A
5.6	Speed limitation of electrically-driven ride-on toys	N/A
5.7	Glass and porcelain	N/A
5.8	Shape and size of certain toys	N/A
5.9	Toys comprising monofilament fibres	N/A
5.10	Small balls	N/A
5.11	Play figures	N/A
5.12	Hemispheric-shaped toys	N/A
5.13	Suction cups	N/A
5.14	Straps intended to be worn fully or partially around the neck	N/A
5.15	Sledges with cords for pulling	N/A
6	Packaging	N/A
7	Warnings, markings and instructions for use	
7.1	General	N/A
7.2	Toys not intended for children under 36 months	N/A
7.3	Latex Balloons	N/A
7.4	Aquatic toys	N/A
7.5	Functional Toys	N/A
7.6	Hazardous sharp functional edges and points	N/A
7.7	Projectiles toys	N/A
7.8	Imitation protective masks and helmets	N/A
7.9	Toy kites	N/A
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	N/A
7.11	Toys intended to be strung across a cradle, cot, or perambulator	N/A
7.12	Liquid-filled teething	N/A
7.13	Percussion caps specifically designed for use in toys	N/A
7.14	Acoustics	N/A
7.15	Toys bicycles	N/A
7.16	Toys intended to bear the mass of a child	N/A
7.17	Toys comprising monofilament fibres	N/A
7.18	Toy scooters	N/A
7.19	Rocking horses and similar toys	N/A

\*\*\*TO BE CONTINUED\*\*\*





## TEST RESULT

Section	Description	Result
7.20	Magnetic/electrical experimental sets	N/A
7.21	Toy with electrical cables exceeding 300mm in length	N/A
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	N/A
7.23	Toys intended to be attached to a cradle, cot or perambulator	N/A
7.24	Sledges with cords for pulling	N/A
7.25	Flying toys	
7.25.1	Flying toys	N/A
7.25.2	Remote controlled flying toys	N/A
7.26	Improvised projectiles	N/A

**Remark:**

P - Pass, NA - Not Applicable.


**Labeling Requirement for European Union**

Test Request: Labeling requirement including Washing/Cleaning instruction, CE mark, importer / manufacturer name and address, product identification as specified in Directive 2009/48/EC – Safety of toys

Labeling Content	Observation Result	Location	Conclusion
Washing/Cleaning Instruction	Present	Product	Pass(See Remark 1)
CE Mark	Present, Correct form, CE marking (height = 10mm)	Product	Pass
Importer's Name & Address	Present	Product	Pass
Manufacturer's Name & Address	Present	Product	
Product ID	Present	Packaging Product	Pass

**Remark:**

1. "According to the Toy Safety Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. The manufacturer should, if applicable, provide

instructions on how the toy has to be cleaned. The sample was labeled with <  >."

\*\*\*TO BE CONTINUED\*\*\*



## TEST RESULT

### Labeling Requirement for United Kingdom

Test Request: Labeling requirement including Washing/Cleaning instruction, compliance marking, importer / manufacturer name and address, product identification as specified in The Toys (Safety) Regulations 2011 and The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019

Labeling Content	Observation Result	Location	Conclusion
Washing/Cleaning Instruction	Present	Product	Pass(See Remark 1)
UKCA Marking	Present, Correct form, UKCA marking (height=12mm)	Product	Pass
Importer's Name & Address	Present	Product	Pass
Manufacturer's Name & Address	Present	Product	
Product ID	Present	Packaging Product	Pass

#### Remark:

1. "According to the Toys (Safety) Regulations 2011, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. The manufacturer should, if applicable, provide



instructions on how the toy has to be cleaned. The sample was labeled with < >."

### Flammability of Toys

Test Request: As Specified in European Standard on Safety of Toys EN 71-2:2020

Section	Description	Result
4	Requirements	
4.1	General Requirements	P
4.2	Toys to be worn on the head	N/A
4.3	Toy disguise costumes and toys intended to be worn by a child in play	N/A
4.4	Toys intended to be entered by a child	N/A
4.5	Soft-filled toys	P

#### Remark:

P – Pass, N/A – Not Applicable.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Migration of Certain Elements

Test Request: Migration of certain elements as specified in European Standard on Safety of Toys EN 71-3:2019+A1:2021.

Test Method: General elements, with reference to EN 71-3:2019+A1:2021, analysis was performed by ICP-MS;  
 Extractable Chromium (VI), with reference to EN 71-3:2019+A1:2021, analysis was performed by IC-ICP-MS;  
 Extractable organic tin, with reference to EN 71-3:2019+A1:2021, analysis was performed by GC-MS.

Test Item(s):	Unit	Result							
		1	2	3	4	5	6	7	8
Category Type		III	III	III	III	III	III	III	III
Extractable Lead (Pb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Antimony (Sb)	mg/kg	ND	10±2.8	ND	ND	ND	ND	ND	ND
Extractable Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Boron (B)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Aluminum (Al)	mg/kg	ND	ND	ND	ND	ND	ND	79±13	ND
Extractable Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Chromium#2	mg/kg	ND	ND	ND	ND	ND	ND	ND	-
Extractable Organic Tin#1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Chromium (III) (Cr III) #3	mg/kg	-	-	-	-	-	-	-	ND
Extractable Chromium (VI) (Cr VI)	mg/kg	-	-	-	-	-	-	-	ND

\*\*\*TO BE CONTINUED\*\*\*



## TEST RESULT

Test Item(s):	Unit	Result	
		9	10
Category Type		III	III
Extractable Lead (Pb)	mg/kg	ND	ND
Extractable Antimony (Sb)	mg/kg	ND	ND
Extractable Arsenic (As)	mg/kg	ND	ND
Extractable Barium (Ba)	mg/kg	ND	ND
Extractable Cadmium (Cd)	mg/kg	ND	ND
Extractable Mercury (Hg)	mg/kg	ND	ND
Extractable Selenium (Se)	mg/kg	ND	ND
Extractable Boron (B)	mg/kg	ND	ND
Extractable Cobalt (Co)	mg/kg	ND	ND
Extractable Manganese (Mn)	mg/kg	ND	ND
Extractable Strontium (Sr)	mg/kg	ND	ND
Extractable Zinc (Zn)	mg/kg	ND	ND
Extractable Copper (Cu)	mg/kg	ND	ND
Extractable Aluminum (Al)	mg/kg	ND	ND
Extractable Nickel (Ni)	mg/kg	ND	ND
Extractable Tin (Sn)	mg/kg	ND	ND
Extractable Chromium#2	mg/kg	ND	ND
Extractable Organic Tin#1	mg/kg	ND	ND
Extractable Chromium (III) (Cr III) #3	mg/kg	-	-
Extractable Chromium (VI) (Cr VI)	mg/kg	-	-

**Note:**

#1 - The migration of organic tin is expressed as tributyltin.

#2 - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI).

#3 - In particular Chromium (III) is calculated by subtracting the Chromium (VI) concentration from the total chromium concentration.

**Remarks:**

mg/kg = milligram per kilogram

MDL = Method Detection Limit

ND = Not Detected, less than MDL

The probability of false acceptance of extractable antimony (Sb) to component of No. 2 is 0%.

The probability of false acceptance of extractable aluminum (Al) to component of No. 7 is 0%.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

Limits –MDL per category type:

Test Item(s):	Unit	Limit	MDL	Limit	MDL	Limit	MDL
Category Type		I		II		III	
Extractable Lead (Pb)	mg/kg	2.0	1.0	0.5	0.2	23	10
Extractable Antimony (Sb)	mg/kg	45	5	11.3	1	560	10
Extractable Arsenic (As)	mg/kg	3.8	0.2	0.9	0.1	47	5
Extractable Barium (Ba)	mg/kg	1500	50	375	10	18750	50
Extractable Cadmium (Cd)	mg/kg	1.3	0.1	0.3	0.05	17	1
Extractable Mercury (Hg)	mg/kg	7.5	0.5	1.9	0.2	94	10
Extractable Selenium (Se)	mg/kg	37.5	2	9.4	1	460	10
Extractable Boron (B)	mg/kg	1200	50	300	10	15000	50
Extractable Cobalt (Co)	mg/kg	10.5	1	2.6	0.2	130	10
Extractable Manganese (Mn)	mg/kg	1200	50	300	10	15000	50
Extractable Strontium (Sr)	mg/kg	4500	50	1125	50	56000	50
Extractable Zinc (Zn)	mg/kg	3750	50	938	50	46000	50
Extractable Copper (Cu)	mg/kg	622.5	10	156	10	7700	50
Extractable Aluminum (Al)*	mg/kg	2250	50	560	50	28130	50
Extractable Nickel (Ni)	mg/kg	75	5	18.8	2	930	10
Extractable Tin (Sn)	mg/kg	15000	50	3750	50	180000	50
Extractable Organic Tin	mg/kg	0.9	0.2	0.2	0.2	12	0.2
Extractable Chromium	mg/kg	-	0.02	-	0.005	-	0.02
Extractable Chromium (III) (Cr III)	mg/kg	37.5	2	9.4	1	460	10
Extractable Chromium (VI) (Cr VI)	mg/kg	0.02	0.02	0.005	0.005	0.053	0.02

Category I: dry, brittle, powder-like or pliable toy material

Category II: liquid or sticky toy material

Category III: scrapped-off toy material

"-" = Not Regulated

\* - The migration limits for Aluminium have been amended by Commission Directive (EU) 2019/1922. The new limit values (2250 mg/kg, 560 mg/kg and 28130 mg/kg, respectively) apply from 2021-05-20. Before this date the limit values 5625 mg/kg, 1406 mg/kg and 70000 mg/kg, respectively, apply.

\*\*\*END OF THE REPORT\*\*\*

右限小