

Prepared for: Bente Nestling
Eurofins Product Testing A-S
Smedeskovvej 38
DK-8464 Galten

Sample described as: **Oliekridt**

Reference number(s): **G25-419**

Date received: 04/04/14

Date(s) assessed: 04/04/14-22/04/14

Intended use: Colouring on dark paper.

Foreseeable use: Product will get on the skin during use

Frequency and duration of use: Repeat use toy, duration of play possibly up to 60 minutes at a time.

Intended age of user: Over 3

Adult supervision required: Not defined

Description of sample: A pack of white crayons

**Conclusion:**

Further action required –
A presumption of conformity is dependent on the product complying with the relevant standards and requirements highlighted in the report.

Assessment carried out by:



Judith Russell
Consultant

Date: 22nd April 20104

Note: This assessment is based on the draft 'Technical documentation' guidance (Version 1.3 dd 02/12/13) published by the European Commission.

Harmonised Toy Standards that may be applicable to the particular toy;

- EN 71-1 2011
- EN 71-2 2011
- EN 71-3 2013

Other legislation/testing particularly relevant to the toy;

- Toy Safety Directive 2009/48/EC
- Packaging and Packaging Waste Directive 94/62/EC (as amended) - Packaging only
- REACH Regulation (EC) No. 1907/2006 (as amended)

1. Assessment of the toy for mechanical, physical, flammability and electrical hazards for which harmonised safety standards exist.

Identified hazard	Is the identified hazard fully covered by the requirements of the applicable Standard? Yes - conformity presumed No – EC type examination required
Choking hazard – small parts & detachable small parts	Yes
Flammability hazard	Yes

Are notices publishes in OJEU list of Standards applicable?	No
Does the toy present any risks that could be lowered?	No

2. Assessment of the toy for radioactivity hazards for which no harmonised safety standards exist.

Are any radioactive materials added?	No
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3. Assessment of the toy for hygiene hazards for which no harmonised safety standards exist.

Indicator of possible risk of microbiological contamination	Is the risk present? Yes – refer to Notified Bodies protocol No – not applicable
Natural materials used (e.g. nuts, feathers)	Yes - clay
Liquids, gels, sticky material used	No
Cleaning requirement	
Is the toy a textile toy for children under 3 years	No

4. Assessment of the toy for chemical hazards for which some harmonised safety standards exist.

Harmonised standard relevant to the chemical hazards in certain toys	Is the standard relevant? Comments
EN 71-3 Migration of certain elements	Yes
EN 71-4 Experimental Sets for Chemistry and related activities	No
EN 71-5 Chemical Toys (sets) other than experimental sets	No
EN 71-7 Finger paints	No
EN 71-12 N-Nitrosamines and N-Nitrosatable substances	No
EN 12472 Method for wear and corrosion for the detection of nickel release from coated items	No
EN 1811 Reference test method for the release of nickel from products intended to come into direct and prolonged contact with the skin	No
ISO/TS 17234 Leather-chemical tests – Determination of azo-colourants in dyed leathers	No
EN14362-1 and 2 Textiles – Methods for the determination of certain aromatic amines derived from azo-colourants	No

Additional points to take into consideration	Is this point relevant to the toy? If Yes evidence of compliance with the specific requirement must be obtained and/or a risk assessment carried out
Does the toy contain any fragrances	No
Does the toy contain any plastic	No

Does the toy contain any rubber	No
Does the toy contain any plasticised material	No
Is the toy a specific type covered by EN71-9,10,11	Yes, solid materials intended to leave a trace (2B – colorants and 2C – polymers)
Is the toy a cosmetic product (Regulation (EC) No 1223/2009)	No
Is the toy likely to come into contact with food (e.g. toy tea cups) (EC Regulation 1935/2004)	No
Is the toy (or does the toy contain) a substance of mixture (e.g. poster paints, modelling compounds) (EC Regulation 1272/2008)	Yes
Is the toy (or does the toy contain) a ceramic article (84/500/EC)	No
Is the toy electrical and/or electronic equipment under RoHS (2011/65/EC) (e.g. racing car set)	No
Is the toy supplied with batteries (2006/66/EC)	No
Other hazard	None apparent

Note: This is not a detailed Chemical Safety Assessment and although it references chemical risks to be taken into account in general testing, it does not look at the detailed Bill of Materials.

Additional Labelling Notes: The GB warning currently on the packaging is not sufficient for toys standards: "Not suitable for children under 3 years as broken crayons may be swallowed" should be:

"Not suitable for children under 3 years. Small Parts. Choking Hazard"

The address of the manufacturer needs to be included on the labelling and the CE mark should be a minimum of 5 mm high.

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Date
April 24th, 2014
Your ref.
Filia farvekridt
Our ref.
392-2014-00054601/BJ1

Analytical report

Sample material

Sample identification	Filia farvekridt
Receipt of samples	April 2, 2014
Analytical period	April 8 – April 10, 2014

Applied methods

EN 71-1:2013
EN 71-2:2011
EN 71-3:2013

Results

Please see enclosure with detailed results.

Conclusion

The sample **does not comply** with the requirements in EN 71-1. See test results section 7 – Warnings, markings and instructions for use.

The sample **complies** with the requirements in EN 71-2 and EN 71-3

Eurofins Product Testing A/S



Brian Jensen
MSc. Chemistry

Analytical report AR-14-JR-005709-01

Sample Code 799-2014-00029048

Reference	Crayon
Client sample code	392-2014-00054601
Purchase order code	EUDKGA-00000551/BJ1
Number	1
Ordered by	Eurofins Product Testing A/S
Submitted by	Mr. Brian Jensen
Sender	TNT
Reception date time	07.04.2014
Packaging	plastic bag
Start/end of analyses	08.04.2014 / 10.04.2014

TEST RESULTS
Physical-chemical Analysis

JR055	EN 71 Part 1: Safety of Toys - Mechanical and physical properties of toys (#)	
	Method: EN 71-1, Mechanical and physical Tests	
	Mechanical and physical properties	Does not comply with the requirements
JR056	EN 71 Part 2: Safety of Toys - Flammability (#)	
	Method: EN 71-2, Mechanical and physical Tests	
	Flammability	Complies with the requirements
JR0EP	EN 71 Part 3: Migration of certain 19 elements (#)	
	Method: EN 71-3:2013, Safety of Toys - Migration of certain Elements	
	Migration of certain elements	Complies with the requirements

(#)= Eurofins Consumer Product Testing (Hamburg) is accredited for this test.

Signature



Denis Campbell, Sales Manager Toy Testing

The results of examination refer exclusively to the checked samples.
Duplicates - even in parts - must be authorized by the test laboratory in written form.

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Appendix 1 to report no: AR-14-JR-005709-01
Sample no: 799-2014-00029048

**JR055 - EN 71-1:2013-12 Safety of Toys –
Mechanical & Physical Properties**

Clause No.	Title	Result
4	General Requirements	
4.1	Material cleanliness	Pass
4.2	Assembly	Not applicable
4.3	Flexible plastic sheeting	Not applicable
4.4	Toy bags	Not applicable
4.5	Glass	Not applicable
4.6	Expanding materials	Not applicable
4.7	Edges	No sharp edges present
4.8	Points and metallic wires	No sharp points or wires present
4.9	Protruding parts	Not applicable
4.10.1	Folding and sliding mechanisms	Not applicable
4.10.2	Driving mechanisms	Not applicable
4.10.3	Hinges	Not applicable
4.10.4	Springs	Not applicable
4.11	Mouth –actuated toys and other toys intended to be put in the mouth	Not applicable
4.12	Balloons	Not applicable
4.13	Cords of toy kites and other flying toys	Not applicable
4.14.1	Toys which a child can enter	Not applicable
4.14.2	Masks and helmets	Not applicable
4.15.1	Toys propelled by a child or by other means	Not applicable
4.15.2	Toy bicycles	Not applicable
4.15.3	Rocking horses and similar toys	Not applicable
4.15.4	Toys not propelled by a child	Not applicable
4.15.5	Toy scooters	Not applicable
4.16	Heavy immobile toys	Not applicable
4.17.1	Projectiles General	Not applicable
4.17.2	Projectile toys without stored energy	Not applicable
4.17.3	Projectile toys with stored energy	Not applicable
4.17.4	Bows and arrows	Not applicable
4.18	Aquatic toys and inflatable toys	Not applicable
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	Not applicable

Appendix 1 to report no: AR-14-JR-005709-01
Sample no: 799-2014-00029048

4.20	Acoustics Toys placed on the market before Sept 30th 2014:	Not applicable
	EN 71-1:2011+A2:2013 Toys placed on the market after Sept 30th 2014:	Not applicable
4.21	Toys containing a non-electrical heat source	Not applicable
4.22	Small balls	Not applicable
4.23.1	Magnets General	Not applicable
4.23.2	Toys other than magnetic/electrical experimental sets intended for children over 8 years	Not applicable
4.23.3	Magnetic/electrical experimental sets intended for children over 8 years	Not applicable
4.24	Yo-yo balls	Not applicable
4.25	Toys attached to food	Not applicable
5	Toys intended for children under 36 months	
5.1	General requirements	Not applicable
5.2	Soft filled toys and soft-filled parts of a toy	Not applicable
5.3	Plastic sheeting	Not applicable
5.4	Cords, chains and electrical cables in toys	Not applicable
5.5	Liquid filled toys	Not applicable
5.6	Speed limitation of electrically driven ride-on toys	Not applicable
5.7	Glass and porcelain	Not applicable
5.8	Shape and size of certain toys	Not applicable
5.9	Toys comprising monofilament fibres	Not applicable
5.10	Small balls	Not applicable
5.11	Play figures	Not applicable
5.12	Hemispheric-shaped toys	Not applicable
5.13	Suction cups	Not applicable
5.14	Straps intended to be worn fully or partially around the neck	Not applicable

Appendix 1 to report no: AR-14-JR-005709-01
Sample no: 799-2014-00029048

6	Packaging	Not applicable
7	Warnings, markings and instructions for use	
	Markings and information required by Directive 2009/48/EC Notes: <i>The address at which the manufacturer can be contacted is missing.</i> <i>The CE marking must be at least 5 mm high. On this sample it is only 4mm high.</i>	See notes beside
7.1	General <i>The warnings in different languages shall begin with the word "warning" regarding the appropriate Directive 2009/48/EC. The appropriate word for warning is missing.</i> Note: <i>The warning is correct in content. Because of translation mistakes and for better understanding it is recommended to use the clear example warning as described in clause 7: "Not suitable for children under 36 months. Small parts"</i>	Fail
7.2	Toys not intended for children under 36 months	Not applicable

Tested by: DS

Date: 09/04/2014

Appendix 1 to report no: AR-14-JR-005709-01

Sample no: 799-2014-00029048

JR056 - EN 71-2:2011 Safety of Toys: Flammability

4.1	General	
	Cellulose Nitrate	Pass
	Pile surface flash test	Not applicable
	Other requirements	Pass

4.2	Toys to be worn on the head which includes beards, moustaches, wigs etc. made from hair, pile or other material with similar features, moulded and fabric masks and flowing material attached to hats, masks etc.	
4.2.2	Beards, moustaches, wigs etc., made from hair, pile or material with similar features, which protrude $\geq 50\text{mm}$ from the surface of the toy	Not applicable
4.2.3	Beards, moustaches, wigs etc., made from hair, pile or material with similar features, which protrude $< 50\text{mm}$ from the surface of the toy	Not applicable
4.2.4	Full or partial moulded head masks including those which cover the head	Not applicable
4.2.5	Flowing shrouds, hoods, head-dresses, etc. which are attached to products worn on the head and fabric masks which partially or fully cover the head, but excluding items covered by 4.3	Not applicable

4.3	Toy disguise costumes and toys intended to be worn by a child in play	
Description		Rate of spread of flame (mm per sec)
		Not applicable
Labelling on toy		Not applicable
Labelling on packaging		Not applicable

4.4	Toys intended to be entered by a child	
Description		Rate of spread of flame (mm per sec)
		Not applicable
Flaming debris/ molten drips observed		Not applicable
Labelling on toy		Not applicable
Labelling on packaging		Not applicable

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4.5	Soft filled toys with a piled or textile surface		
Description	Greatest dimension of toy (mm)	Rate and spread of flame (mm per sec)	
			Not applicable

Tested by: DS

Date: 09/04/2014

Appendix 1 to report no: AR-14-JR-005709-01
Sample no: 799-2014-00029048

JR0EP - EN 71-3:2013 Safety of Toys - Migration of certain 19 elements

Limits of element migration from accessible parts of toy material
All figures quoted as mg soluble element per kg material

Element	B	Al	$\frac{Cr(III)}{Cr(VI)}$	Mn	Co	Ni	Cu	Zn	As	Se	Sr	Cd	Sn	Organic tin	Ba	Hg	Pb	Sb
Limits Category I (dry, brittle, powder like, pliable)	mg/kg 1200	5625	$\frac{37,5}{0,02}$	1200	10,5	75	622,5	3750	3,8	37,5	4500	1,3	15000	0,9	1500	7,5	13,5	45
Limits Category II (liquid, sticky)	mg/kg 300	1406	$\frac{9,4}{0,005}$	300	2,6	18,8	156	938	0,9	9,4	1125	0,3	3750	0,2	375	1,9	3,4	11,3
Limits Category III (scraped-off)	mg/kg 15000	70000	$\frac{460}{0,2}$	15000	130	930	7700	46000	47	460	56000	17	180000	12	18750	94	160	560
Description of sample	Results of analysis																	
A White crayon Cat I ☒ Cat II ☐ Cat III ☐	<0,05*	760	$\frac{0,06}{0,02}$	1,5	<0,05*	<0,25*	5,1	0,92	0,21	<0,5*	2,1	<0,05*	<0,08*	<0,9	24	<0,05*	2,6	<0,25*
B White plastic box inside Cat I ☐ Cat II ☐ Cat III ☒	<0,05*	<0,25*	total Cr 0,02	<0,05*	<0,05*	<0,25*	0,05	0,38	<0,05*	<0,5*	<0,25*	<0,05*	<0,08*	<12	<0,25*	<0,05*	<0,05*	<0,25*
C Colored cardboard box outside Cat I ☐ Cat II ☐ Cat III ☒	1,7	210	0,16	23	0,13	<0,25*	1,1	11	0,08	<0,5*	89	0,05	<0,08*	<12	15	<0,05*	0,47	<0,25*

* Limit of quantification
Chromium (VI): Subcontracted to an external laboratory accredited for this test (Metrohm: 881 Compact IC)

Test results and evaluation relate to the tested items only.

Appendix 1 to report no: AR-14-JR-005709-01

Sample no: 799-2014-00029048

Limits for Germany:

Antimony (Sb): 60mg/kg

Arsenic (As): 25mg/kg

Barium (Ba): 1000mg/kg

Lead (Pb): 90mg/kg

Mercury: 60 mg/kg

Tested by: CB

Date: 23/04/2014

Appendix 1 to report no: AR-14-JR-005709-01
Sample no: 799-2014-00029048

Analytical details (EN 71-3 clause 10)

10f Technique used: Inductively coupled plasma

10h Notes for individual sample portions -
the following notes apply to the samples indicated and referenced above:

	Applicable samples:
Between 10 and 100mg taken:	
Sample/volume ratio exceeds 1:50:	
Base material included:	
Samples sieved:	
2M HCl added:	
6M HCl added:	
n-heptane used:	A used pentane
Samples centrifuged:	
Specimens adjusted to 0.3M:	
Less than 10mg present:	
Others:	

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Date
August 27th, 2014
Your ref.
Filia Oliekridt
Our ref.
392-2014-00157801/BJ1

Analytical report

Sample material

Sample identification	Filia Oliekridt
Receipt of samples	August 6, 2014
Analytical period	August 11 – August 15, 2014

Applied methods
EN 71-1:2013

Picture of sample tested



Results
Please see enclosure with detailed results.

Conclusion
The sample **complies** with the requirements in EN 71-1.

Eurofins Product Testing A/S



Brian Jensen
MSc. Chemistry

Analytical report AR-14-JR-013199-01**Sample Code** 799-2014-00037171

Reference	Oliekridt
Client sample code	392-2014-00157801
Number	1
Ordered by	Eurofins Product Testing A/S
Submitted by	Mr. Brian Jensen
Sender	TNT
Reception date time	08.08.2014
Start/end of analyses	11.08.2014 / 15.08.2014

TEST RESULTS**Physical-chemical Analysis****JR055 EN 71 Part 1: Safety of Toys - Mechanical and physical properties of toys (#)**Method: EN 71-1, Mechanical and physical Tests
Mechanical and physical propertiesComplies with the
requirements

(#) = Eurofins Consumer Product Testing (Hamburg) is accredited for this test.

Signature

_____
Denis Campbell, Sales Manager Toy Testing

Appendix 1 to report no: AR-14-JR-013199-01
Sample no: 799-2014-00037171

**JR055 - EN 71-1:2013-12 Safety of Toys –
DIN EN 71-1:2011+A2:2013
Mechanical & Physical Properties**

Clause No.	Title	Result
4	General Requirements	
4.1	Material cleanliness <i>Remark: Pens slightly discoloured.</i>	Pass (see remark)
4.2	Assembly	Not applicable
4.3	Flexible plastic sheeting	Not applicable
4.4	Toy bags	Not applicable
4.5	Glass	Not applicable
4.6	Expanding materials	Not applicable
4.7	Edges	No edges present
4.8	Points and metallic wires	No points or wires present
4.9	Protruding parts	Not applicable
4.10.1	Folding and sliding mechanisms	Not applicable
4.10.2	Driving mechanisms	Pass
4.10.3	Hinges	Not applicable
4.10.4	Springs	Not applicable
4.11	Mouth –actuated toys and other toys intended to be put in the mouth	Not applicable
4.12	Balloons	Not applicable
4.13	Cords of toy kites and other flying toys	Not applicable
4.14.1	Toys which a child can enter	Not applicable
4.14.2	Masks and helmets	Not applicable
4.15.1	Toys propelled by a child or by other means	Not applicable
4.15.2	Toy bicycles	Not applicable
4.15.3	Rocking horses and similar toys	Not applicable
4.15.4	Toys not propelled by a child	Not applicable
4.15.5	Toy scooters	Not applicable
4.16	Heavy immobile toys	Not applicable
4.17.1	Projectiles General	Not applicable
4.17.2	Projectile toys without stored energy	Not applicable
4.17.3	Projectile toys with stored energy	Not applicable
4.17.4	Bows and arrows	Not applicable
4.18	Aquatic toys and inflatable toys	Not applicable

Appendix 1 to report no: AR-14-JR-013199-01

Sample no: 799-2014-00037171

4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	Not applicable
4.20	Acoustics Toys placed on the market before Sept 30th 2014:	Not applicable
	EN 71-1:2011+A2:2013 Toys placed on the market after Sept 30th 2014:	Not applicable
4.21	Toys containing a non-electrical heat source	Not applicable
4.22	Small balls	Not applicable
4.23.1	Magnets General	Not applicable
4.23.2	Toys other than magnetic/electrical experimental sets intended for children over 8 years	Not applicable
4.23.3	Magnetic/electrical experimental sets intended for children over 8 years	Not applicable
4.24	Yo-yo balls	Not applicable
4.25	Toys attached to food	Not applicable
5	Toys intended for children under 36 months	
5.1	General requirements	Not applicable
5.2	Soft filled toys and soft-filled parts of a toy	Not applicable
5.3	Plastic sheeting	Not applicable
5.4	Cords, chains and electrical cables in toys	Not applicable
5.5	Liquid filled toys	Not applicable
5.6	Speed limitation of electrically driven ride-on toys	Not applicable
5.7	Glass and porcelain	Not applicable
5.8	Shape and size of certain toys	Not applicable
5.9	Toys comprising monofilament fibres	Not applicable
5.10	Small balls	Not applicable
5.11	Play figures	Not applicable
5.12	Hemispheric-shaped toys	Not applicable
5.13	Suction cups	Not applicable
5.14	Straps intended to be worn fully or partially around the neck	Not applicable

Appendix 1 to report no: AR-14-JR-013199-01
Sample no: 799-2014-00037171

6	Packaging	Not applicable
7	Warnings, markings and instructions for use	
	Markings and information required by Directive 2009/48/EC	Pass
7.1	General	Pass
7.2	Toys not intended for children under 36 months <i>Remark: The indicated hazard should be supplemented by a description of the harm.</i>	Pass (see remark)

Tested by: NK

Date: 2014-08-15