



MITSUBISHI PENCIL CO., LTD.

 Eurofins Food and Product Testing Japan KK
 2-1-13 Sachiura Kanazawa-ku
 JP-2360003 Yokohama - JAPAN

Analytical Report

Sample code Nr.	295-2020-06000312	Sample reception date:	30.06.2020
		Analysed between:	30.06.2020 - 14.07.2020
Sample described as:	ペイントマーカー PX-20/PX-21/PX-30用インク 銀 / Silver Ink for PX-20/PX-21/PX-30		

Result	ResultsUnit	LOQ
JQ001 JQ Cadmium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Cadmium (Cd)	<1 mg/kg	1
JQ018 JQ Lead Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Lead (Pb)	<10 mg/kg	10
JQ035 JQ Mercury Method: IEC 62321-4, ICP-MS, Preparation: Microwave digestion Mercury (Hg)	<1 mg/kg	1
JQ043 JQ Total Chromium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Chromium (Cr)	<10 mg/kg	10
JQC58 JQ Phthalates Method: IEC 62321-8, GC-MS, Preparation: Solvent extraction		
Diethylhexylphthalate (DEHP)	<50 mg/kg	50
Dibutyl phthalate (DBP)	<50 mg/kg	50
Benzyl butyl phthalate (BBP)	<50 mg/kg	50
Di-isobutyl phthalate (DiBP)	<50 mg/kg	50

XRF	Results Unit	LOQ	Method
JQD17 JQ Bromine (Br)	<50 mg/kg	50	IEC 62321-3-1, XRF

If the element of target is influenced with other elements, it may be possible that DL is too high. [Normal DL;Cd,Pb:10ppm, Cr,Hg,Br:50ppm]

•20D0605
 •3σ value(ppm)・・・ Br:0.1
 •[Total Chromium] was not detected, therefore it was determined that the amount of [Hexavalent Chromium] is less than the RoHS directive threshold.
 •[Bromine] was not detected, therefore it was determined that the amount of [Bromine compounds] (PBB, PBDE etc.) is less than the RoHS directive threshold.

The tests identified by the two letters code JQ are performed in laboratory Eurofins Food and Product Testing (Yokohama).

Takayoshi Kaneko
Laboratory Director

***** END OF REPORT *****



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Analytical Report

Sample code Nr.	295-2020-06000310	Sample reception date:	30.06.2020
		Analysed between:	30.06.2020 - 14.07.2020
Sample described as:	ペイントマーカー PX-20/PX-21/PX-30用インク 白 / White Ink for PX-20/PX-21/PX-30		

Result	ResultsUnit	LOQ
JQ001 JQ Cadmium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Cadmium (Cd)	<1 mg/kg	1
JQ018 JQ Lead Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Lead (Pb)	<10 mg/kg	10
JQ035 JQ Mercury Method: IEC 62321-4, ICP-MS, Preparation: Microwave digestion Mercury (Hg)	<1 mg/kg	1
JQ043 JQ Total Chromium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Chromium (Cr)	<10 mg/kg	10
JQC58 JQ Phthalates Method: IEC 62321-8, GC-MS, Preparation: Solvent extraction		
Diethylhexylphthalate (DEHP)	<50 mg/kg	50
Dibutyl phthalate (DBP)	<50 mg/kg	50
Benzyl butyl phthalate (BBP)	<50 mg/kg	50
Di-isobutyl phthalate (DiBP)	<50 mg/kg	50

XRF	Results Unit	LOQ	Method
JQD17 JQ Bromine (Br)	<50 mg/kg	50	IEC 62321-3-1, XRF

If the element of target is influenced with other elements, it may be possible that DL is too high. [Normal DL;Cd,Pb:10ppm, Cr,Hg,Br:50ppm]

•20E0645T
•3σ value(ppm)・・・ Br:0.7
•[Total Chromium] was not detected, therefore it was determined that the amount of [Hexavalent Chromium] is less than the RoHS directive threshold.
•[Bromine] was not detected, therefore it was determined that the amount of [Bromine compounds] (PBB, PBDE etc.) is less than the RoHS directive threshold.

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Laboratory Director

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Analytical Report

Sample code Nr.	295-2020-06000308	Sample reception date:	30.06.2020
		Analysed between:	30.06.2020 - 14.07.2020
Sample described as:	ペイントマーカー PX-20/PX-21用インク 茶 / Brown Ink for PX-20/PX-21		

Result	ResultsUnit	LOQ
JQ001 JQ Cadmium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Cadmium (Cd)	<1 mg/kg	1
JQ018 JQ Lead Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Lead (Pb)	<10 mg/kg	10
JQ035 JQ Mercury Method: IEC 62321-4, ICP-MS, Preparation: Microwave digestion Mercury (Hg)	<1 mg/kg	1
JQ043 JQ Total Chromium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Chromium (Cr)	<10 mg/kg	10
JQC58 JQ Phthalates Method: IEC 62321-8, GC-MS, Preparation: Solvent extraction		
Diethylhexylphthalate (DEHP)	<50 mg/kg	50
Dibutyl phthalate (DBP)	<50 mg/kg	50
Benzyl butyl phthalate (BBP)	<50 mg/kg	50
Di-isobutyl phthalate (DiBP)	<50 mg/kg	50

XRF	Results Unit	LOQ	Method
JQD17 JQ Bromine (Br)	<50 mg/kg	50	IEC 62321-3-1, XRF

If the element of target is influenced with other elements, it may be possible that DL is too high. [Normal DL;Cd,Pb:10ppm, Cr,Hg,Br:50ppm]

- 19H1401T
- 3σ value(ppm)・・・ Br:0.6
- [Total Chromium] was not detected, therefore it was determined that the amount of [Hexavalent Chromium] is less than the RoHS directive threshold.
- [Bromine] was not detected, therefore it was determined that the amount of [Bromine compounds] (PBB, PBDE etc.) is less than the RoHS directive threshold.

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Laboratory Director

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Analytical Report

Sample code Nr.	295-2020-06000303	Sample reception date:	30.06.2020
		Analysed between:	30.06.2020 - 14.07.2020
Sample described as:	ペイントマーカー PX-20/PX-21用インク 緑 / Green Ink for PX-20/PX-21		

Result	ResultsUnit	LOQ
JQ001 JQ Cadmium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Cadmium (Cd)	<1 mg/kg	1
JQ018 JQ Lead Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Lead (Pb)	<10 mg/kg	10
JQ035 JQ Mercury Method: IEC 62321-4, ICP-MS, Preparation: Microwave digestion Mercury (Hg)	<1 mg/kg	1
JQ043 JQ Total Chromium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Chromium (Cr)	<10 mg/kg	10
JQC58 JQ Phthalates Method: IEC 62321-8, GC-MS, Preparation: Solvent extraction		
Diethylhexylphthalate (DEHP)	<50 mg/kg	50
Dibutyl phthalate (DBP)	<50 mg/kg	50
Benzyl butyl phthalate (BBP)	<50 mg/kg	50
Di-isobutyl phthalate (DiBP)	<50 mg/kg	50

XRF	Results Unit	LOQ	Method
JQD17 JQ Bromine (Br)	<50 mg/kg	50	IEC 62321-3-1, XRF

If the element of target is influenced with other elements, it may be possible that DL is too high. [Normal DL;Cd,Pb:10ppm, Cr,Hg,Br:50ppm]

•20E0505T
 •3σ value(ppm)・・・ Br:0.4
 •[Total Chromium] was not detected, therefore it was determined that the amount of [Hexavalent Chromium] is less than the RoHS directive threshold.
 •[Bromine] was not detected, therefore it was determined that the amount of [Bromine compounds] (PBB, PBDE etc.) is less than the RoHS directive threshold.

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Takayoshi Kaneko
 Laboratory Director

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Analytical Report

Sample code Nr.	295-2020-06000301	Sample reception date:	30.06.2020
		Analysed between:	30.06.2020 - 14.07.2020
Sample described as:	ペイントマーカー PX-20/PX-21用インク 黄 / Yellow Ink for PX-20/PX-21		

Result	ResultsUnit	LOQ
JQ001 JQ Cadmium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Cadmium (Cd)	<1 mg/kg	1
JQ018 JQ Lead Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Lead (Pb)	<10 mg/kg	10
JQ035 JQ Mercury Method: IEC 62321-4, ICP-MS, Preparation: Microwave digestion Mercury (Hg)	<1 mg/kg	1
JQ043 JQ Total Chromium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Chromium (Cr)	<10 mg/kg	10
JQC58 JQ Phthalates Method: IEC 62321-8, GC-MS, Preparation: Solvent extraction		
Diethylhexylphthalate (DEHP)	<50 mg/kg	50
Dibutyl phthalate (DBP)	<50 mg/kg	50
Benzyl butyl phthalate (BBP)	<50 mg/kg	50
Di-isobutyl phthalate (DiBP)	<50 mg/kg	50

XRF	Results Unit	LOQ	Method
JQD17 JQ Bromine (Br)	<50 mg/kg	50	IEC 62321-3-1, XRF

If the element of target is influenced with other elements, it may be possible that DL is too high. [Normal DL;Cd,Pb:10ppm, Cr,Hg,Br:50ppm]

•20D1705T
 •3σ value(ppm)・・・ Br:0.6
 •[Total Chromium] was not detected, therefore it was determined that the amount of [Hexavalent Chromium] is less than the RoHS directive threshold.
 •[Bromine] was not detected, therefore it was determined that the amount of [Bromine compounds] (PBB, PBDE etc.) is less than the RoHS directive threshold.

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Analytical Report

Sample code Nr.	295-2020-06000300	Sample reception date:	30.06.2020
		Analysed between:	30.06.2020 - 14.07.2020
Sample described as:	ペイントマーカー PX-20/PX-21用インク 青 / Blue Ink for PX-20/PX-21		

Result	ResultsUnit	LOQ
JQ001 JQ Cadmium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Cadmium (Cd)	<1 mg/kg	1
JQ018 JQ Lead Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Lead (Pb)	<10 mg/kg	10
JQ035 JQ Mercury Method: IEC 62321-4, ICP-MS, Preparation: Microwave digestion Mercury (Hg)	<1 mg/kg	1
JQ043 JQ Total Chromium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Chromium (Cr)	<10 mg/kg	10
JQC58 JQ Phthalates Method: IEC 62321-8, GC-MS, Preparation: Solvent extraction Diethylhexylphthalate (DEHP)	<50 mg/kg	50
Dibutyl phthalate (DBP)	<50 mg/kg	50
Benzyl butyl phthalate (BBP)	<50 mg/kg	50
Di-isobutyl phthalate (DiBP)	<50 mg/kg	50

XRF	Results Unit	LOQ	Method
JQD17 JQ Bromine (Br)	<50 mg/kg	50	IEC 62321-3-1, XRF

If the element of target is influenced with other elements, it may be possible that DL is too high. [Normal DL;Cd,Pb:10ppm, Cr,Hg,Br:50ppm]

•20D2305T
 •3σ value(ppm)・・・ Br:0.6
 •[Total Chromium] was not detected, therefore it was determined that the amount of [Hexavalent Chromium] is less than the RoHS directive threshold.
 •[Bromine] was not detected, therefore it was determined that the amount of [Bromine compounds] (PBB, PBDE etc.) is less than the RoHS directive threshold.

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Analytical Report

Sample code Nr.	295-2020-06000299	Sample reception date:	30.06.2020
		Analysed between:	30.06.2020 - 14.07.2020
Sample described as:	ペイントマーカー PX-20/PX-21用インク 赤 / Red Ink for PX-20/PX-21		

Result	ResultsUnit	LOQ
JQ001 JQ Cadmium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Cadmium (Cd)	<1 mg/kg	1
JQ018 JQ Lead Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Lead (Pb)	<10 mg/kg	10
JQ035 JQ Mercury Method: IEC 62321-4, ICP-MS, Preparation: Microwave digestion Mercury (Hg)	<1 mg/kg	1
JQ043 JQ Total Chromium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Chromium (Cr)	<10 mg/kg	10
JQC58 JQ Phthalates Method: IEC 62321-8, GC-MS, Preparation: Solvent extraction		
Diethylhexylphthalate (DEHP)	<50 mg/kg	50
Dibutyl phthalate (DBP)	<50 mg/kg	50
Benzyl butyl phthalate (BBP)	<50 mg/kg	50
Di-isobutyl phthalate (DiBP)	<50 mg/kg	50

XRF	Results Unit	LOQ	Method
JQD17 JQ Bromine (Br)	<50 mg/kg	50	IEC 62321-3-1, XRF

If the element of target is influenced with other elements, it may be possible that DL is too high. [Normal DL;Cd,Pb:10ppm, Cr,Hg,Br:50ppm]

•20E0605T
 •3σ value(ppm)・・・ Br:0.5
 •[Total Chromium] was not detected, therefore it was determined that the amount of [Hexavalent Chromium] is less than the RoHS directive threshold.
 •[Bromine] was not detected, therefore it was determined that the amount of [Bromine compounds] (PBB, PBDE etc.) is less than the RoHS directive threshold.

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Analytical Report

Sample code Nr.	295-2020-06000298	Sample reception date:	30.06.2020
		Analysed between:	30.06.2020 - 14.07.2020
Sample described as:	ペイントマーカー PX-20/PX-21用インク 黒 / Black Ink for PX-20/PX-21		

Result	ResultsUnit	LOQ
JQ001 JQ Cadmium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Cadmium (Cd)	<1 mg/kg	1
JQ018 JQ Lead Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Lead (Pb)	<10 mg/kg	10
JQ035 JQ Mercury Method: IEC 62321-4, ICP-MS, Preparation: Microwave digestion Mercury (Hg)	<1 mg/kg	1
JQ043 JQ Total Chromium Method: IEC 62321-5, ICP-MS, Preparation: Microwave digestion Chromium (Cr)	<10 mg/kg	10
JQC58 JQ Phthalates Method: IEC 62321-8, GC-MS, Preparation: Solvent extraction		
Diethylhexylphthalate (DEHP)	<50 mg/kg	50
Dibutyl phthalate (DBP)	<50 mg/kg	50
Benzyl butyl phthalate (BBP)	<50 mg/kg	50
Di-isobutyl phthalate (DiBP)	<50 mg/kg	50

XRF	Results Unit	LOQ	Method
JQD17 JQ Bromine (Br)	<50 mg/kg	50	IEC 62321-3-1, XRF

If the element of target is influenced with other elements, it may be possible that DL is too high. [Normal DL;Cd,Pb:10ppm, Cr,Hg,Br:50ppm]

•20D1704
 •3σ value(ppm)・・・ Br:0.1
 •[Total Chromium] was not detected, therefore it was determined that the amount of [Hexavalent Chromium] is less than the RoHS directive threshold.
 •[Bromine] was not detected, therefore it was determined that the amount of [Bromine compounds] (PBB, PBDE etc.) is less than the RoHS directive threshold.

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Laboratory Director

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