



Test Report

Date : 2023-03-30
No. : HT23030093

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Applicant : Medicare Plus Company Limited
RME, 3/F., Hang Fung Ind. Bldg., Phase 1
2G Hok Yuen St., Hung Hom, Kowloon.

Attn.: Ronald Tse

Description of Samples : One (1) group of submitted sample said to be
Coating powder
Style no: SR
End use: Steel Storage Racks, office furniture, Chair
Country of Origin: China
Country of Destination: Hong Kong

Date Samples Received : 2023-03-22

Date Tested : 2023-03-22 to 2023-03-30

Investigation Requested : Selected test(s) as detailed herein.



CHENG Chun-yiu, David,
Authorized Signatory



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TEST RESULT(S):

Standard Test Method for Determination of Free Formaldehyde

Ref. ASTM D5910-05(2012)

Determined by: High Performance Liquid Chromatography

<u>Testing Item</u>	<u>Result</u>	<u>Submitted requirement</u>	<u>Comment</u>
Formaldehyde	ND	Colour coating of the steel storage rack and its accessories should not contain formaldehyde	Pass

Note(s): ND = Not Detected (Method Detection Limit = 5ppm)

Determination of Dichloromethane and 1,1,1-Trichloroethane in Paint and Coatings by Direct injection into a Gas Chromatograph

Ref. ASTM D4457-02(2014) solvent extraction and analyzed by Gas Chromatography with Mass Selective detector

<u>Testing Item</u>	<u>Result</u>	<u>Submitted requirement</u>	<u>Comment</u>
Dichloromethane 1,1,1 - Trichloroethane	ND ND	Colour coating of the steel storage rack and its accessories should not contain halogenated solvent	Pass

Note(s): ND = Not Detected (Method Detection Limit = 10mg/kg)

The Hong Kong Standards and Testing Centre Limited

Head Office: 10 Dai Wang Street, Taipo Industrial Estate, Tai Po, N.T., Hong Kong

Laboratory: Unit B, 10/F, Block 1, Tai Ping Industrial Centre, No. 57 Ting Kok Road, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@stc.group Website: www.stc.group

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TEST RESULT(S):

Heavy metal content

Ref. ASTM F963-17, Section 8.3, and analyzed by Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

	Materials Type (appendix)	Total Pb (mg/kg)	Soluble Heavy Elements(mg/kg)								Extractable Cd (µg/sample)
			As	Ba	Cd	Cr	Hg	Pb	Sb	Se	
Maximum Allowable Limit	I	90	25	1000	75	60	60	90	60	500	-
	II	100 ^[a]	-	-	-	-	-	-	-	-	-
	III	100 ^[a]	25	1000	75	60	60	90	60	500	200 ^[b]
	IV	100	-	-	-	-	-	-	-	-	-
	V	100	25	1000	75	60	60	90	60	500	-
	VI	100	25	250	50	25	25	90	60	500	-
	VII	-	25	1000	75	60	60	-	60	500	-
	VIII	100	25	1000	75	60	60	90	60	500	-
Soluble Analytical Correction (%)			60	30	30	30	50	30	60	60	-

-	Unit	Result
Type	-	VIII
Mass of Trace Amount	g	-
Parameter	-	-
Total Pb	mg/kg	27
As	mg/kg	ND(S)
Ba	mg/kg	ND(S)
Cd	mg/kg	ND(S)
Cr	mg/kg	ND(S)
Hg	mg/kg	ND(S)
Sb	mg/kg	ND(S)
Pb	mg/kg	ND(S)
Se	mg/kg	ND(S)
Extractable Cd	µg/sample	-
Conclusion	-	Pass

Note(s):

- ND = Not Detected
- Method detection limit: Total screening 5 mg/kg (each); Soluble 5 mg/kg (each)
- mg/kg = milligram(s) per kilogram = ppm = part(s) per million
- g = gram(s)
- µg = microgram
- % = percent
- As = Arsenic, Ba = Barium, Cd =Cadmium, Cr = Chromium, Hg = Mercury, Pb = Lead, Sb = Antimony, Se = Selenium
- T = Total, S = Soluble
- NA = Not Applicable

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Remark(s):

- ^[a] According to Children's Products Containing Lead; Exemptions for Certain Electronic Devices; Final Rule 16 CRF 1500.88, exemption were granted to steel alloy containing up to 0.35 % lead by weight, aluminum containing up to 0.4 % lead by weight and copper-based alloy containing up to 4 % lead by weight.
- ^[b] Metal materials that fit within the small parts cylinder and that contain less than 75mg/kg total cadmium do not need to be tested to the special 24 hour soluble cadmium test method to demonstrate compliance to the 200 µg soluble requirement.
- Test Item(s) with total heavy metals content exceeding maximum allowable limit should be considered as Data and further tested by soluble heavy metals analysis of ASTM International Standard ASTM F963-17, Sections 8.3.2 to 8.3.5(excluding 8.3.5.5(3)) as specified in Section 8.3.1.3.
- Test Item(s) with total heavy metals content not exceeding maximum allowable limit should be considered as Pass and no need perform further soluble heavy metals analysis of ASTM International Standard ASTM F963-17, Sections 8.3.2 to 8.3.5 as specified in Section 8.3.1.3.
- For Soluble heavy elements content test, reported result(s) was/ were adjusted by analytical correction as specified in Section 8.3.4.3.
- NA^[c] For Soluble heavy elements content test, paint or similar surface-coating materials that can't be removed by scraping with a sharp blade will be tested with base materials.
- NA^[d] For Soluble heavy elements content test, no tested on component(s) less than 10 milligrams by weight on one single sample as specified in Section 8.3.3.6 (2).

APPENDIX

List of Material Types :			
Type	Material Description	Type	Material Description
I	Paints and similar surface Coatings	V	Glass/ Ceramic –small part
II	Metallic materials – non-small part	VI	Modelling clay
III	Metallic materials – small part	VII	Fabrics and other material exempted by 16CFR 1500.91 (except paper and paperboard)
IV	Glass/ Ceramic – non-small part	VIII	Other materials other than I-VII (except paper and paperboard)

***** End of Test Report *****

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