



**BUREAU
VERITAS**

TEST REPORT

REPORT NO. : (5508)270-1030-R1 (HK)
DATE : FEBRUARY 25, 2009
PAGE : 1 OF 5
THE REPORT IS AMENDMENT OF AND SUPERSEDES THE
PREVIOUS REPORT (5508)270-1030 DATED
OCTOBER 16, 2008

APPLICANT & ADDRESS : RUTLAND PLASTIC TECHNOLOGIES
10021 RODNEY STREET PINEVILLE, NC 28134
CONTACT PERSON : TONY CHAPMAN
DATE OF SUBMISSION : SEPTEMBER 26, 2008
TESTING PERIOD : OCTOBER 10, 2008 – OCTOBER 16, 2008
SAMPLE DESCRIPTION : Sample(s) received is/are stated to be:
CLAIRA EB,EM,EH,ES/ UNIMATCH HO BASE
Season: ALL
Liaison Office (LO): ALL
Vendor Code: /
Item Number: 3
Style Number: PTF HO
Factory Code: ALL
Color Name: FLUOR COLOR MIX
Color Code: PTF/ PTHF SERIES
Age Group: ALL AGES
Product End Use: /
Material Supplier: RUTLAND/ UNION
Care Instruction: /
Country of Destination: /
Sample Type: COMPONENTS
Product Category: APPAREL
Material Package: /
RETEST NO. : /

REMARK

If there are questions or concerns on this report, please contact: (852) 2494-5783
analytical-enquiry@hk.bureauveritas.com

BUREAU VERITAS HONG KONG LIMITED

PREPARED BY: _____ Ed _____

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Photo of the Submitted Sample



SUMMARY OF TEST RESULTS

REQUIREMENT		
TEST REQUESTED – CHEMICAL TESTS	CONCLUSION	REMARK
FORMALDEHYDE	PASS	-
HEAVY METALS	PASS	-
ORGANOTIN COMPOUNDS	PASS	-
PHTHALATES	PASS	-
ALKYLPHENOL ETHOXYLATES (APEO) AND ALKYLPHENOL (AP) CONTENT	-	SEE RESULTS ON PAGE 5

Note: NA = Not Applicable

NR = Not Requested



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TEST RESULT – CHEMICAL

FORMALDEHYDE

TEST METHOD: ISO 14184-1 (Textile)

TEST ITEM(S) : 1. RED PASTE

Test Item(s)	Result (mg/kg)	Conclusion	Limit (mg/kg)
1	ND	PASS	Adult: 75 / Kid: 20

Note: mg/kg = milligram per kilogram
Detection Limit: 5 mg/kg

"<" = less than
ND = not detected

">" = more than

HEAVY METALS

TEST METHOD: Nike In House Method
total metal content by microwave digestion and ICP or AAS analysis

TEST ITEM(S) : 1. RED PASTE

Parameter	Result (mg/kg)	Limit (mg/kg)
	1	
Cadmium (Cd)	ND	50
Chromium (Cr)	ND	3 Information Only (Screening test for Cr(VI) test)
Lead (Pb)	ND	90
Nickel (Ni)	ND	Information Only No RSL Requirement
Mercury (Hg)	0.021	1
Tin (Sn)	0.948	0.1 Information Only (Screening test for organotins test)
Conclusion	PASS	

Note: mg/kg = milligram per kilogram
Detection Limit (mg/kg): Cd (25), Cr (3), Pb (50), Ni (1), Hg (0.01), Sn (0.1)

ND = not detected

"<" = less than

">" = more than



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TEST RESULT – CHEMICAL

ORGANOTIN COMPOUNDS

TEST METHOD: Nike in house method,
Modified ISO 17353:2004
Ethanol extraction, derivatization, followed by GCMS analysis

TEST ITEM(S) : 1. RED PASTE

Test Item(s)	Result		Conclusion	Limit (mg/kg)
	Detected Analyte(s)	Conc. (mg/kg)		
1	ND	Sum: ND	PASS	All products: Sum of TBT & TPhT: 0.5, Textile products for Children < 36 months: DBT: 1.0 MBT, MOT, DOT, TeBT: Information Only No RSL Requirement

Note: mg/kg = milligram per kilogram
Detection Limit: Each 0.1mg/kg

“<” = less than “>” = more than
ND = not detected

PHTHALATES

TEST METHOD: Nike in-house method: LC-DAD and LC-MS

TEST ITEM(S) : 1. RED PASTE

Test Item(s)	Result		Conclusion	Limit (mg/kg)
	Detected Analyte(s)	Conc. (mg/kg)		
1	DINP	Sum: 97.5	PASS	Kid: Sum <500

Note: mg/kg = milligram per kilogram
Detection Limit: Each 50mg/kg

“<” = less than “>” = more than
ND = not detected



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TEST RESULT – CHEMICAL

ALKYLPHENOL ETHOXYLATES (APEO) AND ALKYLPHENOL (AP) CONTENT

Parameter	Unit	Result
		1
Nonylphenol ethoxylates (NPEO)	%	<0.01
Octylphenol ethoxylates (OPEO)	%	<0.01
Nonylphenol (NP)	%	<0.001
Octylphenol (OP)	%	<0.001

Test Item 1: RED PASTE

Note: “<” = less than

Method: Sample was extracted with organic solvent and then analysed by Liquid Chromatograph Mass Spectrometer/ Gas Chromatograph Mass Spectrometer.

List of tested customers parameters

List of Organotin Compounds:					
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	Tributyltin (TBT)	56573-85-4	4	Monobutyltin (MBT)	2406-65-7
2	Triphenyltin (TPhT)	668-34-8	5	Monooctyltin (MOT)	
3	Dibutyltin (DBT)	1002-53-5	6	Dioctyltin (DOT)	
			7	Tetrabutyltin, (TeBT)	

List of Phthalates:					
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	Butyl benzyl phthalate (BBP)	85-68-7	4	Di-n-octyl phthalate (DNOP)	117-84-0
2	Dibutyl phthalate (DBP)	84-74-2	5	Di-iso-nonyl phthalate (DINP)	28553-12-0
3	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	6	Di-iso-decyl phthalate (DIDP)	26761-40-0

- END -